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OM protein - protein search, using sw model

Run on: August 9, 2005, 13:09:36 ; Search time 18.1655 Seconds  
(without alignments)  
1804.019 Million cell updates/sec

Title: US-09-319-724B-1  
Perfect score: 2347  
Sequence: 1 MYIDDLPIWIGVGEADENGE.....FYFGYMAVFPSTALGIMCGAI 439

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues  
Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA.\*  
1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep.\*  
2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/1/iaa/PTCUB\_COMB.pep.\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2347	100.0	579	4	US-09-786-681A-4
2	2347	100.0	582	4	US-09-786-681A-2
3	1107	47.2	257	4	US-09-270-767-32308
4	842.5	35.9	625	3	US-08-959-004-10
5	746.5	31.8	663	3	US-08-959-004-5
6	746.5	31.8	676	4	US-08-959-016-9494
7	603	25.7	667	3	US-08-959-004-11
8	546	23.3	133	4	US-09-270-767-44213
9	546	23.3	133	4	US-09-270-767-59636
10	419	17.9	241	4	US-09-248-796A-20311
11	364	15.5	87	4	US-09-513-999C-7785
12	159	6.8	218	4	US-09-270-767-46281
13	135	5.8	111	4	US-09-513-999C-7579
14	127	5.4	574	4	US-09-107-433-3877
15	127	5.4	605	4	US-09-583-110-4773
16	120.5	5.1	513	4	US-09-543-681A-8279
17	118.5	5.0	496	3	US-09-134-001C-3703
18	115	4.9	502	4	US-09-328-352-6968
19	109	4.6	468	4	US-09-710-279-868
20	109	4.6	468	4	US-09-710-279-1618
21	108.5	4.6	584	4	US-09-693-746-22
22	107.5	4.6	408	2	US-08-742-440A-6
23	107	4.6	353	4	US-09-576-160B-6
24	106	4.5	237	3	US-09-134-001C-3057
25	105	4.5	504	4	US-09-489-039A-8489
26	104	4.4	511	4	US-09-107-532A-6112
27	103	4.4	822	4	US-09-824-734-3

ALIGNMENTS

RESULT 1

US-09-786-681A-4  
; Sequence 4, Application US/09786681A  
; Patent No. 6692926  
; GENERAL INFORMATION:  
; APPLICANT: HIDAKA, Jun et al.  
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L  
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES  
; FILE REFERENCE: 0020-4827P  
; CURRENT APPLICATION NUMBER: US/09/786.681A  
; CURRENT FILING DATE: 2001-01-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 4  
; LENGTH: 579  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-09-786-681A-4

Query Match 100.0%; Score 2347; DB 4; Length 579;  
Best Local Similarity 100.0%; Pred. No. 4.9e-25; Mismatches 0; Indels 0; Gaps 0;  
Matches 439; Conservative 0

QY	1	MYIDDLPIWIGVGEADENGE	YLYWTKKLEIGFNGNRI	VDVNLTS	SEGVKLV	PNTKIQM	60
DB	122	MYIDDLPIWIGVGEADENGE	YLYWTKKLEIGFNGNRI	VDVNLTS	SEGVKLV	PNTKIQM	181
QY	61	SYSVKWKSDVKFEDRFDK	YLDPSFFQHR	IHWFSIF	NFSFMV	IFLVGLV	SMILMTRK
DB	182	SYSVKWKSDVKFEDRFDK	YLDPSFFQHR	IHWFSIF	NFSFMV	IFLVGLV	SMILMTRK
QY	121	YARYSKEEMDDMDRDL	GDGVKQVHGDV	FRPSSHPL	IFSSLI	GGCOIF	AVSLIV
DB	242	YARYSKEEMDDMDRDL	GDGVKQVHGDV	FRPSSHPL	IFSSLI	GGCOIF	AVSLIV
QY	181	AMIEDLYTERGSM	LTAIFVVAATSP	VNGYFGS	LYARQGG	RWIKQ	MFIGAFLP
DB	302	AMIEDLYTERGSM	LTAIFVVAATSP	VNGYFGS	LYARQGG	RWIKQ	MFIGAFLP
QY	241	GTAFINFIAYIYH	ASRAIPFGTM	AVCCICF	FVLPLN	LVTIL	GRNL
DB	362	GTAFINFIAYIYH	ASRAIPFGTM	AVCCICF	FVLPLN	LVTIL	GRNL
QY	301	AVRPIPKKMP	EPAVIVCLGGI	LPFGSIF	IFEMVFI	FITSF	WAYK
DB	422	AVRPIPKKMP	EPAVIVCLGGI	LPFGSIF	IFEMVFI	FITSF	WAYK
QY	361	CIVTVCVTIVCT	YFLLN	AEDEY	EWQNTS	FLS	AASTAI
DB	482	CIVTVCVTIVCT	YFLLN	AEDEY	EWQNTS	FLS	AASTAI

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Qy 421 YFGYMAVFSTALGIMCGAI 439
Db 542 YFGYMAVFSTALGIMCGAI 560

RESULT 2
US-09-786-681A-2
; Sequence 2, Application US/09786681A
; Patent No. 6692926
; GENERAL INFORMATION:
; APPLICANT: HIDAKA, Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/09/786.681A
; CURRENT FILING DATE: 2001-01-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 582
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-786-681A-2

Query Match 100.0%; Score 2347; DB 4; Length 582;
Best Local Similarity 100.0%; Pred. No. 4.9e-225;
Matches 439; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MYIDLPTWIGVGEADENGEDYIWTYKLEIGFNGNRIVDVNLTSRGKVKLVPTNKIQM 60
Db 125 MYIDLPTWIGVGEADENGEDYIWTYKLEIGFNGNRIVDVNLTSRGKVKLVPTNKIQM 184

Qy 61 SYSVKWKKSDVKFDRDPDKYLDPSFFQHR IHWFISFNSFMVIFLVGLVSMILMRTLKRD 120
Db 185 SYSVKWKKSDVKFDRDPDKYLDPSFFQHR IHWFISFNSFMVIFLVGLVSMILMRTLKRD 244

Qy 121 YARYSKEEEMDDMRDLGDEYGWKQVGDVPRPSHPLIFSSLIGSGCQIPAVSLIIV 180
Db 245 YARYSKEEEMDDMRDLGDEYGWKQVGDVPRPSHPLIFSSLIGSGCQIPAVSLIIV 304

Qy 181 AMIEDLYTERGSMSTALFVYAATSPVNGYFGGSLYARQGGRRWKOMFICAFILIPAMVC 240
Db 305 AMIEDLYTERGSMSTALFVYAATSPVNGYFGGSLYARQGGRRWKOMFICAFILIPAMVC 364

Qy 241 GTAFFINFIAIYYHASRAIPFGTWMVAVCCICFFVILPLNLVGTILGRNLSQPNPFCRVN 300
Db 365 GTAFFINFIAIYYHASRAIPFGTWMVAVCCICFFVILPLNLVGTILGRNLSQPNPFCRVN 424

Qy 301 AVPRPIPEKKWFMPEPAVIVCLGGILPRGSIPIFYFTSFWAYKIYYVYGFMMVLVLIL 360
Db 425 AVPRPIPEKKWFMPEPAVIVCLGGILPRGSIPIFYFTSFWAYKIYYVYGFMMVLVLIL 484

Qy 361 CIVTVCVTVICTYFLLNAEDYRWQWTSPLSAASTAIYVYMYSFYFFKTKMYGLFOTSP 420
Db 485 CIVTVCVTVICTYFLLNAEDYRWQWTSPLSAASTAIYVYMYSFYFFKTKMYGLFOTSP 544

Qy 421 YFGYMAVFSTALGIMCGAI 439
Db 545 YFGYMAVFSTALGIMCGAI 563

RESULT 3
US-09-270-767-32308
; Sequence 32308, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32308
; LENGTH: 257
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-32308

Query Match 47.2%; Score 1107; DB 4; Length 257;
Best Local Similarity 78.2%; Pred. No. 5e-102;
Matches 201; Conservative 27; Mismatches 29; Indels 0; Gaps 0;

Qy 62 YSVKWKSDVKFDRDPDKYLDPSFFQHR IHWFISFNSFMVIFLVGLVSMILMRTLKRDY 121
Db 1 YEVNWKPSKVEFKRDPDKYLDPSFFQHR IHWFISFNSFMVIFLVGLVSMILMRTLKRDY 60

Qy 122 ARYSKEEEMDDMRDLGDEYGWKQVGDVPRPSHPLIFSSLIGSGCQIPAVSLIIV 181
Db 61 ARYSKOEIIDDMDERDLGDEYGWKQVGDVPRPSHPLIFSSLIGSGCQIPAVSLIIV 120

Qy 182 MIEDLYTERGSMSTALFVYAATSPVNGYFGGSLYARQGGRRWKOMFICAFILIPAMVC 241
Db 121 IVGELYTERGSMSTALFVYAATSPVNGYFGGSLYARQGGRRWKOMFICAFILIPAMVC 180

Qy 242 TAFFINFIAIYYHASRAIPFGTWMVAVCCICFFVILPLNLVGTILGRNLSQPNPFCRVNA 301
Db 181 TAFFINFIAIYYHASRAIPFGTWMVAVCCICFFVILPLNLVGTILGRNLSQPNPFCRVNA 240

Qy 302 VPRPIPEKKWFMPEPAVI 318
Db 241 VPRPIPEKKWFMPEPLII 257

RESULT 4
US-08-959-004-10
; Sequence 10, Application US/08959004
; Patent No. 6197543
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Lal, Preeti
; APPLICANT: Shah, Purvi
; APPLICANT: Kaser, Matthew
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
; TITLE OF INVENTION: PROTEINS
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESSES:
; ADDRESS: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/959,004
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0414 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
```

```
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 625 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 1665777
US-08-959-004-10

Query Match 35.9%; Score 842.5; DB 3; Length 625;
Best Local Similarity 39.9%; Pred. No. 3.6e-75;
Matches 175; Conservative 83; Mismatches 158; Indels 23; Gaps 6;

Qy 17 ENGEDYLVTK--KLEIGFNGNRIVDVNLTSEGVKLVNPT-----KIQMS 61
Db 175 EDDEQEHYRVVRFEVYIPOSIRLEDLKADEKSSCTLPFGTNSGPOEIDPTKENQLYFT 234
Qy 62 YSVKWKSDVDFEDRFDKYLDPSPFQHRHWFISFNSFMVIFLVGLVSMILMRLTKDY 121
Db 235 YSVHWSDDIKWGRWDYLTMSDVQ--IHWFSIINSVVVFFLSGILSMIIRTKDI 292
Qy 122 ARYSKEEMDMRDLDGEYQWGVHGDVFRPPSSHPLIFSSLSGGCOIFAVSLIVIVA 181
Db 293 ANYNKEDDIE---DTWEEGKWLHVGDVFRPPQVPMILSSLLSGSIGQLFCMILIVFVA 348
Qy 182 MIEDLY-TERGSMSTAFVYAATSPVNGYFGGSLYARQGRWTKQMFICAFILIPAMVC 240
Db 349 MLGMLSPSSRGALMTACFLFMFMGVFGFGSAGRLLYRTLKGRWKKGAFCATILYPGVVF 408
Qy 241 GTAFINFIAYYHASRAIPGTVMVAVCCICFFVILPLNLVGTILGRNLGQNPFCRNV 300
Db 409 GICFVLNCFINGKSSGAVPPTVALLCMWFGISLPLVLYGYFGFKQPDYD- PVRTN 467
Qy 301 AVPRIPKQWMEPAVIVCLGGILPFGSIPIFYFTSFWAYKIYVYVGMMLVLVL 360
Db 468 QIPQIPQRMWYMNRFVUGILMAGILPFCAMFIELFFISAIWENQYVYLFGLFLVFIIL 527
Qy 361 CIVTVCTVICTYFLNADYRWQWTSFLSAASTAIYVYMTSYFYFFKTKYGLFQTSF 420
Db 528 VVSCQISIVMVYFQCAEDYRWNRNRLVSGSFAFVYLVVAIFYVNVKLDIVFIPSL 587
Qy 421 YEGYMAVFSTALGIMCGAI 439
Db 588 YFGYTALMVLSFWLLTGTII 606

RESULT 5
US-08-959-004-5
; Sequence 5, Application US/08959004
; Patent No. 6197543
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Lal, Preeti
; APPLICANT: Shah, Purvi
; APPLICANT: Kaser, Matthew
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS

; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/959,004
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0414 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 663 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: ADRETUT06
; CLONE: 2822412
US-08-959-004-5

Query Match 31.8%; Score 746.5; DB 3; Length 663;
Best Local Similarity 34.2%; Pred. No. 1.4e-65;
Matches 155; Conservative 93; Mismatches 160; Indels 45; Gaps 9;

Qy 20 EDDYLVLT-----YKLEIGFNGNRIV-----DYNLTSEG 48
Db 204 DTFYIFNHVDIKIYHVVTGSMGARLVAAKLEPKSFKTHIDKPDGCGPPMDISNKASG 263
Qy 49 KVKLVPTKTKQMSYVWKKSD-VKPEDRDKYLDPSFQHRHWFISFNSFMVIFLVG 107
Db 264 EI-----KIATYSVSFEEDDKIRWASRDYILLESMPHTH-IQWFSIMNLSLVFLVLSG 316
Qy 108 LVSMILARTLRKDYARYSKREEMDMRDLDGEYQWGVHGDVFRPPSSHPLIFSSLSG 167
Db 317 MVAMILRTLHKDARTN---QMDSTE-DAQEEFGKWLHVGDIFRPPKGMLLSVFLSG 372
Qy 168 CQIFAVSLIVIVAMIEDLY-TERGSMSTAFVYAATSPVNGYFGGSLYARQGRWIK 226
Db 373 TQILIMTFVTLFFACLGFLSPANRGALMTCAVVLVLLGTGPAVYAAFYKSGEKWKT 432
Qy 227 QMFICAFILIPAMVCGTAFINFIAYYHASRAIPGTVMVAVCCICFFVILPLNLVGTILG 286
Db 433 NVLLTSFLCPGIVFADFFIMNLILWEGSSAAIPGTLVALALWFCISVPLTFICAYFG 492
Qy 287 RNLGQNPFCRVNAVPRPIPEKKWMEPAVIVCLGGILPFGSIPIFYFTSFWAYKI 346
Db 493 FKKAIEH-PVRTNQIPQIPEQSFYTKPLGILMGILPFGCIFQLFILNSIWSHQW 551
Qy 347 YVYVGMMLVLVILCIVTVCTVICTYFLNADYRWQWTSFLSAASTAIYVYMTSYFY 406
Db 552 YVMEGFLVFIILVITCSEATILLCYFHLCAEDYHMQWRSFSLTSGTAVYVLIYAVHYF 611
Qy 407 FFKTMVGLFQTSFYFGYMAVFSTALGIMCGAI 439
Db 612 FSKLQITGTAISTILYFGYTMIMVLVLIFFLFTGTI 644

RESULT 6
US-09-949-016-9494
; Sequence 9494, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
```





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; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 44213
; LENGTH: 133
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; US-09-270-767-44213

Query Match      23.3%; Score 546; DB 4; Length 133;
Best Local Similarity 84.2%; Pred. No. 1.5e-46;
Matches 96; Conservative 11; Mismatches 7; Indels 0; Gaps 0;

Qy 326 PFGSIFEMFIPTSFWAYKIYYVGFMMVLVILCIYVTCVTFYLLNAEDYRQW 385
Db 1 PFGSIFEMFIPTSFWAYKIYYVGFMMVLVILCIYVTCVTFYLLNAEDYRQW 60

Qy 386 TSFLSAASTAIYVMYSFYFFKTKMYGLFQTSFYFGYMAVFTALGIMCGAI 439
Db 61 TSFMAAGSTSIYVAYSFYFFKTKMYGLFQTSFYFGYMAVFTALGIMCGAI 114

RESULT 9
US-09-270-767-59636
; Sequence 59636, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 59636
; LENGTH: 133
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; US-09-270-767-59636

Query Match      23.3%; Score 546; DB 4; Length 133;
Best Local Similarity 84.2%; Pred. No. 1.5e-46;
Matches 96; Conservative 11; Mismatches 7; Indels 0; Gaps 0;

Qy 326 PFGSIFEMFIPTSFWAYKIYYVGFMMVLVILCIYVTCVTFYLLNAEDYRQW 385
Db 1 PFGSIFEMFIPTSFWAYKIYYVGFMMVLVILCIYVTCVTFYLLNAEDYRQW 60

Qy 386 TSFLSAASTAIYVMYSFYFFKTKMYGLFQTSFYFGYMAVFTALGIMCGAI 439
Db 61 TSFMAAGSTSIYVAYSFYFFKTKMYGLFQTSFYFGYMAVFTALGIMCGAI 114

RESULT 10
US-09-248-796A-20311
; Sequence 20311, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstein et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 20311
; LENGTH: 241
; TYPE: PRT
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; ORGANISM: Candida albicans
; US-09-248-796A-20311

Query Match      17.9%; Score 419; DB 4; Length 241;
Best Local Similarity 36.4%; Pred. No. 1.5e-33;
Matches 82; Conservative 46; Mismatches 85; Indels 12; Gaps 4;

Qy 220 GRRWIKQMFIGAFLIPAMVCGTAFFINFIAIYHASRAIPFGTMAVCCICPFVILPLN 279
Db 5 GGDWKLNMELTPVLVPGILSLVFWVLNFFLLISVQSSGAHMGTFMFAVLWFIISPLS 64

Qy 280 LVGTILGRNLSGQP--NFCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFEMVFI 337
Db 65 VIGSILASN---RPLLSVPVRTNQIPROIPTQPMYLSLTPVMFISGIFPFGSIAVEMFI 121

Qy 338 FTSFWAYKIYYVGFMMVLVILCIYVTCVTFYLLNAEDYRQWTSFLSAASTAIY 397
Db 122 YSSIFWFKIYMGGLFFCFILMLTSSLTILMIYYTLCSENYKWKMSLFVGGCAIY 181

Qy 398 VYMYSFYFFKTK---KMYGLFQTSFYFGYMAVFTALGIMCGAI 439
Db 182 VFTHS----FELTGGKFGGFSLLVLYSGYSAVISLFLVFLCCGSI 222

RESULT 11
US-09-513-999C-7785
; Sequence 7785, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59, US2 REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pn
; SEQ ID NO 7785
; LENGTH: 87
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 2
; OTHER INFORMATION: Xaa=Lys or Met or Arg or Thr
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 55
; OTHER INFORMATION: Xaa=Ala or Asp or Gly or Val
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 73
; OTHER INFORMATION: Xaa=Ala or Asp
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 74
; OTHER INFORMATION: Xaa=Lys or Thr
; US-09-513-999C-7785

Query Match      15.5%; Score 364; DB 4; Length 87;
Best Local Similarity 91.1%; Pred. No. 1.1e-28;
Matches 72; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 133 MDRDLGDEYGMKQVHGDVFRPSSHPLIFSSLLIGSCQIFAVSLIIVIAMIEDLYTERGS 192
Db 3 MDRDLGDEYGMKQVHGDVFRPSSHPLIFSSLLIGSCQIFAVSLIIVIAMIEDLYTERGS 62

Qy 193 MLSTAIYVYATSPVNGYF 211
Db 193 MLSTAIYVYATSPVNGYF 211
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Db      63 MLSTAIFVYAXXSPSEWLF 81

RESULT 12
US-09-270-767-46281
; Sequence 46281, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 46281
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-46281

Query Match      6.8%; Score 159; DB 4; Length 218;
Best Local Similarity 62.2%; Pred. No. 1e-07;
Matches 28; Conservative 7; Mismatches 10; Indels 0; Gaps 0;

Qy      1 MYDDLPIWGIVGEADENGEDYLLWYTKLEIGFNGNRIVDVNLT 45
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Db      174 MYDGLPIWGVGRDERDGRKYIFTHKKFDIGYNGQIVDITLT 218

RESULT 13
US-09-513-999C-7579
; Sequence 7579, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 7579
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-513-999C-7579

Query Match      5.8%; Score 135; DB 4; Length 111;
Best Local Similarity 100.0%; Pred. No. 1e-05;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MYDDLPIWGIVGEADENGEDYLL 24
||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      88 MYDDLPIWGIVGEADENGEDYLL 111

RESULT 14
US-09-107-433-3877
; Sequence 3877, Application US/09107433
; Patent No. 6800744
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
; SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE
; THERAPEUTICS
; NUMBER OF SEQUENCES: 5206
; CORRESPONDENCE ADDRESS:
; FOR DIAGNO
```

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; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: <Unknown>
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: <Unknown>
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,433
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/ 085131
; FILING DATE: May 12, 1998
; APPLICATION NUMBER: 60/051553
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Arinello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-011
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 3877:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 574 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEetical: YES
; ORIGINAL SOURCE:
; ORGANISM: Streptococcus pneumoniae
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1..574
; SEQUENCE DESCRIPTION: SEQ ID NO: 3877:
US-09-107-433-3877

Query Match      5.4%; Score 127; DB 4; Length 574;
Best Local Similarity 19.8%; Pred. No. 0.00056;
Matches 73; Conservative 60; Mismatches 117; Indels 118; Gaps 17;

Qy      85 FQQRHWFHFSFMVIFLVGLVSMILMRTLRKYARYSKKEEMDDMDRLDGEYV-- 142
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Db      33 FFRRR-----FYRIVPPVVLMLVLTMPFTFLVRQDYV-----AGIGGQIASV 74
||| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|

Qy      143 -----WKQVHGDPFPPSSHPLIFSSLGSGQIPAVSLIIVIAIEDLYTERGSMLS 195
||| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db      75 LGFMTNFYELLTGGSYESQFPHPLFVNWSLAEVHYIILWGLAVWFL-STHAKSNQLK 133

Qy      196 TAIFVYAATSPVNGYFGGSLYARQGRRWIKQKQFAGFLIPAMVCGTAFFINFIAIYYHA 255
||| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db      134 GMVFLLSAVAFLSFF-----SMFISFLVTSY--SSVFFSLTHVY--- 173

Qy      256 SRAIPF--GTMVAVCCICFFVILPLNLVG-----TILGRNLSGQPNFFCRVNAVPRPIPEK 309
||| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db      174 ---PPFLGSMLA-----TIVGVRQTTSLVKQL-----DK 199

Qy      310 KWFMEPAVIVCLGILPFGSILFIETMYFI-FTSWAYKIYVYVGMMLVLVILCIIVTCVT 368
||| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db      200 IMDLRKTLVVFGG---FGFLVLTTFVKTYLPAYLI-----GFLLSAALAMILAA-- 250

Qy      369 IVCTYFLINAEYRWQ---WTSFLSAASTAIYVMYSFYFFPKTK-----MY 413
||| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db      251 -----RVLHEKTHIQPKIISFLADTSYAVLFWPFIIFSOLTSNLLAVLLTLCYSY 305

Qy      414 GLFQTSFY 421
||| |||
Db      306 GFASLSFY 313
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RESULT 15  
US-09-583-110-4773  
; Sequence 4773, Application US/09583110  
; Patent No. 6699703  
; GENERAL INFORMATION:  
; APPLICANT: Lynn Doucette-Stamm et al.  
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus  
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics  
; FILE REFERENCE: PATH00-07A  
; CURRENT APPLICATION NUMBER: US/09/583,110  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 09/107,433  
; PRIOR FILING DATE: 1998-06-30  
; PRIOR APPLICATION NUMBER: US 60/085,131  
; PRIOR FILING DATE: 1998-05-12  
; PRIOR APPLICATION NUMBER: US 60/051,553  
; PRIOR FILING DATE: 1997-07-02  
; NUMBER OF SEQ ID NOS: 5322  
; SEQ ID NO 4773  
; LENGTH: 605  
; TYPE: PRT  
; ORGANISM: Streptococcus pneumoniae  
US-09-583-110-4773

Query Match 5.4%; Score 127; DB 4; Length 605;  
Best Local Similarity 19.8%; Pred. No. 0.0006;  
Matches 73; Conservative 60; Mismatches 117; Indels 118; Gaps 17;

QY 85 FPOHRIHWFISFMMVIFLVGLVSMILMRTLRKDYARYSKEEEMDDMDRLGDEYG-- 142  
DB 64 FFERR-----FYRIVPPVVLVLTMPFTFLVRQDYV-----AGIGGQIASV 105  
QY 143 -----WKQVHGDVFRSPSHPLIFSSLGCGQIFAVSLIIVIAMIEDLYTERGSMLS 195  
DB 106 LGFTMTNFYELLTGGSYESQFPHLFVHNWSLAVEVHYIILGLAVWFL-STHAKSNGQLK 164  
QY 196 TAFIVYAATSPVNGYEGGSLYARQGGRRWIKOMFIGAPLIPAMVCGTAPFFINFIAIYYHA 255  
DB 165 GMVELLSAVAFLLISFF-----SMFIGSFLVTSY--SSVYFSSLTHVY--- 204  
QY 256 SRAIPF--GTWVAVCCICFFVILPLNLVG-----TILGRNLSGQPNPCRVNAVPRPIPEK 309  
DB 205 -----PFFLGSLA-----TIVGVRTTSLVKQL-----DK 230  
QY 310 KWFMEPAVIVCLGILPPGSIPIEMVFI-FTSFNAYKIYVYGFMMVLVLICIVTVCVT 368  
DB 231 IWDLRKTLVVFGGG---FGFLVLLTFFVKFTYLFAYLI-----GFLIASLAALAMILAA-- 281  
QY 369 IVCTYFLLNAEDYRWQ---WTSFLSAATAIYVYMYSFYFYFFKTK-----MY 413  
DB 282 -----RVLHEKTHHQEPKIIISFLADTSYAVLFWHPFYIIFSQLTSNLLAVLLILCSY 336  
QY 414 GLFQTSFY 421  
DB 337 GFASLSFY 344

Search completed: August 9, 2005, 13:32:28  
Job time : 19.1655 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 9, 2005, 13:22:35 ; Search time 124.847 Seconds  
(without alignments)  
1801.154 Million cell updates/sec

Title: US-09-319-724B-14  
Perfect score: 3089  
Sequence: 1 AALWLLLLLPRTRADEHEH.....IGYMGTSFVRKIYTNVKID 576

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1752860 seqs, 390397842 residues

Total number of hits satisfying chosen parameters: 1752860

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:  
1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/2/pubpaa/US05\_NEW\_PUB.pep.\*  
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18: /cgn2\_6/ptodata/2/pubpaa/US10F\_PUBCOMB.pep.\*  
19: /cgn2\_6/ptodata/2/pubpaa/US11A\_PUBCOMB.pep.\*  
20: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pep.\*  
21: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*  
22: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3089	100.0	579	16	US-10-755-466-4
2	3089	100.0	582	16	US-10-755-466-2
3	2916	94.4	545	10	US-09-374-046A-26
4	2916	94.4	545	15	US-10-616-263-26
5	2187	70.8	530	14	US-10-205-219-121
6	1744.5	56.5	530	16	US-10-425-115-325471
7	1744	56.5	617	16	US-10-437-963-141888
8	1738.5	56.3	594	16	US-10-767-701-44284
9	1736	56.2	594	16	US-10-425-115-325582
10	1716	55.6	596	16	US-10-437-963-116913
11	1712	55.4	595	16	US-10-739-930-9909

12	1636.5	53.0	576	15	US-10-425-114-66140	Sequence 66140, A
13	1635.5	52.9	552	16	US-10-425-115-286624	Sequence 286624, A
14	1430.5	46.3	500	16	US-10-425-115-206340	Sequence 206340, A
15	1313	42.5	424	16	US-10-437-963-103141	Sequence 103141, A
16	1153.5	37.3	592	15	US-10-424-599-174369	Sequence 174369, A
17	1143	37.0	692	16	US-10-425-115-202293	Sequence 202293, A
18	1142	37.0	627	15	US-10-425-114-42573	Sequence 42573, A
19	1129	36.5	623	15	US-10-425-114-62405	Sequence 62405, A
20	1128	36.5	624	15	US-10-425-114-45661	Sequence 45661, A
21	1128	36.5	647	15	US-10-424-599-204944	Sequence 204944, A
22	1126.5	36.5	595	16	US-10-767-701-45514	Sequence 45514, A
23	1125.5	36.4	589	16	US-10-425-115-359244	Sequence 359244, A
24	1115	36.1	594	16	US-10-739-930-11084	Sequence 11084, A
25	1115	36.1	645	16	US-10-739-930-11074	Sequence 11074, A
26	1099	35.6	627	16	US-10-437-963-120941	Sequence 120941, A
27	1037	33.6	893	16	US-10-437-963-177000	Sequence 177000, A
28	1022	33.1	820	16	US-10-437-963-165390	Sequence 165390, A
29	983.5	31.8	341	15	US-10-424-599-246293	Sequence 246293, A
30	950.5	30.8	625	14	US-10-394-136-54	Sequence 54, Appl
31	950.5	30.8	642	14	US-10-201-964-1	Sequence 1, Appl
32	950.5	30.8	642	16	US-10-885-101-1	Sequence 108, Appl
33	944	30.6	606	14	US-10-050-704-108	Sequence 108, Appl
34	944	30.6	606	16	US-10-798-512-108	Sequence 58, Appl
35	923	29.9	606	17	US-10-482-029-58	Sequence 10304, A
36	917.5	29.7	559	16	US-10-739-930-10304	Sequence 150528, A
37	898.5	29.1	642	16	US-10-437-963-150528	Sequence 218357, A
38	897	29.0	637	15	US-10-424-599-218357	Sequence 193953, A
39	883	28.6	639	16	US-10-425-115-193953	Sequence 193953, A
40	878	28.4	637	15	US-10-424-599-197142	Sequence 197142, A
41	876	28.4	639	16	US-10-425-115-194452	Sequence 194452, A
42	871.5	28.2	646	16	US-10-437-963-136356	Sequence 136356, A
43	870	28.2	639	16	US-10-425-115-194454	Sequence 194454, A
44	867	28.1	253	16	US-10-425-115-206342	Sequence 206342, A
45	861	27.9	659	16	US-10-437-963-128426	Sequence 128426, A

ALIGNMENTS

RESULT 1  
US-10-755-466-4  
; Sequence 4, Application US/10755466  
; Publication No. US20040265854A1  
; GENERAL INFORMATION:  
; APPLICANT: HIDAKA, Jun et al.  
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I  
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES  
; FILE REFERENCE: 0020-4827P  
; CURRENT APPLICATION NUMBER: US/10/755.466  
; PRIOR FILING DATE: 2004-01-13  
; PRIOR APPLICATION NUMBER: US/09/786, 681  
; PRIOR FILING DATE: 2001-04-30  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: Patent in version 3.0  
; SEQ ID NO 4  
; LENGTH: 579  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-755-466-4

Query Match	100.0%	Score	3089;	DB	16;	Length	579;
Best Local Similarity	100.0%	Pred. No.	6.2e-275;				
Matches	576;	Conservative	0;	Mismatches	0;	Indels	0;
Gaps	0;						
QY	1	AALWLLLLLPRTRADEHEHTYQDKKEEVLWMWNTVGPVHNRQETKYFSLPFCVGSKSI	60				
DB	4	AALWLLLLLPRTRADEHEHTYQDKKEEVLWMWNTVGPVHNRQETKYFSLPFCVGSKSI	63				
QY	61	SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLDKRKDAFVYAIKNHYQWY	120				
DB	64	SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLDKRKDAFVYAIKNHYQWY	123				
QY	121	IDDLPIWIGVEADENGEDYVLTWYTKLEIGFNGNRIVDVNLTSSEKVKLVNTKIOMSY	180				

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Db 124 IDLLPIGWIGEADGEGDYLYWYKKLEIGFGNGRIVDVNLTSEGKVLVPNTKIOMSY 183
Qy 181 SVKWKSDVKPEDRFDKYLDPSFQHRHWFPSIFNSFMWVIFLVGLVSMILMRTLKDYA 240
Db 184 SVKWKSDVKPEDRFDKYLDPSFQHRHWFPSIFNSFMWVIFLVGLVSMILMRTLKDYA 243
Qy 241 RYSKEEEMDDMDRLDGEYGWKQVHGDFRPSHPLIFSSLIGSGCOIFAVSLIIVAM 300
Db 244 RYSKEEEMDDMDRLDGEYGWKQVHGDFRPSHPLIFSSLIGSGCOIFAVSLIIVAM 303
Qy 301 IEDLYTERGSMSTAIFFVYAATSPVNGYFGSGLYARQGGRWIKOMFIFGLIIPAMVCGT 360
Db 304 IEDLYTERGSMSTAIFFVYAATSPVNGYFGSGLYARQGGRWIKOMFIFGLIIPAMVCGT 363
Qy 361 AFFINFIAIYYHASRAIPFGTMVAVCCICFPVILPLNLVGTILGRNLSGQPNFPCRYNAV 420
Db 364 AFFINFIAIYYHASRAIPFGTMVAVCCICFPVILPLNLVGTILGRNLSGQPNFPCRYNAV 423
Qy 421 PRPIPEKKWFMEPAVIVCLGILPFGSIFITEMYFIFTSFWAYKIYYVYGFPMMLVLVLCI 480
Db 424 PRPIPEKKWFMEPAVIVCLGILPFGSIFITEMYFIFTSFWAYKIYYVYGFPMMLVLVLCI 483
Qy 481 VTVCVTIVCTYFLNLNAEDYRWQWTSFLSAASTAIYVVMYSFYFFKTKMYGLFQTSFYF 540
Db 484 VTVCVTIVCTYFLNLNAEDYRWQWTSFLSAASTAIYVVMYSFYFFKTKMYGLFQTSFYF 543
Qy 541 GYMAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576
Db 544 GYMAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 579
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## RESULT 2

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US-10-755-466-2
; Sequence 2, Application US/10755466
; Publication No. US20040265854A1
; GENERAL INFORMATION:
; APPLICANT: HIDAKA, Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/10/755,466
; CURRENT FILING DATE: 2004-01-13
; PRIOR APPLICATION NUMBER: US/09/786,681
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 582
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-755-466-2
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Query Match 100.0%; Score 3089; DB 16; Length 582;
Best Local Similarity 100.0%; Pred. No. 6.3e-275;
Matches 576; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 AALMLLLLLLPRTRADEHEHTYQDKEEVLLMMNTVGPYHNRQETYKYFSLPFCVGSKKSI 60
Db 7 AALMLLLLLLPRTRADEHEHTYQDKEEVLLMMNTVGPYHNRQETYKYFSLPFCVGSKKSI 66
Qy 61 SHYHETLGEALQGVLEPFGSLDIFKDDVMPATYCEIDLDERKDAFYAIKKNHYWYQY 120
Db 67 SHYHETLGEALQGVLEPFGSLDIFKDDVMPATYCEIDLDERKDAFYAIKKNHYWYQY 126
Qy 121 IDLLPIGWIGEADGEGDYLYWYKKLEIGFGNGRIVDVNLTSEGKVLVPNTKIOMSY 180
Db 127 IDLLPIGWIGEADGEGDYLYWYKKLEIGFGNGRIVDVNLTSEGKVLVPNTKIOMSY 186
Qy 181 SVKWKSDVKPEDRFDKYLDPSFQHRHWFPSIFNSFMWVIFLVGLVSMILMRTLKDYA 240
Db 187 SVKWKSDVKPEDRFDKYLDPSFQHRHWFPSIFNSFMWVIFLVGLVSMILMRTLKDYA 246
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Qy 241 RYSKEEEMDDMDRLDGEYGWKQVHGDFRPSHPLIFSSLIGSGCOIFAVSLIIVAM 300
Db 247 RYSKEEEMDDMDRLDGEYGWKQVHGDFRPSHPLIFSSLIGSGCOIFAVSLIIVAM 306
Qy 301 IEDLYTERGSMSTAIFFVYAATSPVNGYFGSGLYARQGGRWIKOMFIFGLIIPAMVCGT 360
Db 307 IEDLYTERGSMSTAIFFVYAATSPVNGYFGSGLYARQGGRWIKOMFIFGLIIPAMVCGT 366
Qy 361 AFFINFIAIYYHASRAIPFGTMVAVCCICFPVILPLNLVGTILGRNLSGQPNFPCRYNAV 420
Db 367 AFFINFIAIYYHASRAIPFGTMVAVCCICFPVILPLNLVGTILGRNLSGQPNFPCRYNAV 426
Qy 421 PRPIPEKKWFMEPAVIVCLGILPFGSIFITEMYFIFTSFWAYKIYYVYGFPMMLVLVLCI 480
Db 427 PRPIPEKKWFMEPAVIVCLGILPFGSIFITEMYFIFTSFWAYKIYYVYGFPMMLVLVLCI 486
Qy 481 VTVCVTIVCTYFLNLNAEDYRWQWTSFLSAASTAIYVVMYSFYFFKTKMYGLFQTSFYF 540
Db 487 VTVCVTIVCTYFLNLNAEDYRWQWTSFLSAASTAIYVVMYSFYFFKTKMYGLFQTSFYF 546
Qy 541 GYMAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576
Db 547 GYMAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 582
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## RESULT 3

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US-09-374-046A-26
; Sequence 26, Application US/09374046A
; Publication No. US20030096951A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: Lavallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steininger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fectel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: GI 6075-83A
; CURRENT APPLICATION NUMBER: US/09/374,046A
; CURRENT FILING DATE: 1999-08-13
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
; LENGTH: 545
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-374-046A-26
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Query Match 94.4%; Score 2916; DB 10; Length 545;
Best Local Similarity 99.8%; Pred. No. 4.7e-259;
Matches 544; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Qy 32 MNTVGPYHNRQETYKYFSLPFCVGSKKSI SHYHETLGEALQGVLEPFGSLDIFKDDVMP 91
Db 1 MNTVGPYHNRQETYKYFSLPFCVGSKKSI SHYHETLGEALQGVLEPFGSLDIFKDDVMP 60
Qy 92 ATYCEIDLDERKDAFYAIKKNHYWYQYIDLLPIGWIGEADGEGDYLYWYKKLEIG 151
Db 61 ATYCEIDLDERKDAFYAIKKNHYWYQYIDLLPIGWIGEADGEGDYLYWYKKLEIG 120
Qy 152 PNGNRIVDVNLTSEGKVLVPNTKIOMSYSVKWKSDVKPEDRFDKYLDPSFQHRHWF 211
Db 121 PNGNRIVDVNLTSEGKVLVPNTKIOMSYSVKWKSDVKPEDRFDKYLDPSFQHRHWF 180
Qy 212 SIFNSFMWVIFLVGLVSMILMRTLKDYARYSKEEEMDDMDRLDGEYGWKQVHGDFRFP 271
```

Db 181 SIFNSFMVIFLVGLVSMILMRTLRKDYARYSKEEEMDDMDRLDGBYGMKQVHGDVFRP 240  
Qy 272 SSHPLIFSSLGSCQIFAVSLIIVIAMIEDLYTERGSMSTAFVYAATSPVNGYFGG 331  
Db 241 SSHPLIFSSLTGSCQIFAVSLIIVIAMIEDLYTERGSMSTAFVYAATSPVNGYFGG 300  
Qy 332 SLVARQGRRWIKOMFIFGAFILPAMVCGTAFINFIAYYHASRAIPFGTMVAVCCICFF 391  
Db 301 SLVARQGRRWIKOMFIFGAFILPAMVCGTAFINFIAYYHASRAIPFGTMVAVCCICFF 360  
Qy 392 VILPLNLVGTILGRNLGSQLPFCRVNAVPRPIPEKKWFMEPAVIVCLGGLPFGSIFIE 451  
Db 361 VILPLNLVGTILGRNLGSQLPFCRVNAVPRPIPEKKWFMEPAVIVCLGGLPFGSIFIE 420  
Qy 452 MYFIFTSFWAYKIYYVYGFMMVLVILCIIVTCVTVCTYFLLNAEDYPMQWTSFLSAAS 511  
Db 421 MYFIFTSFWAYKIYYVYGFMMVLVILCIIVTCVTVCTYFLLNAEDYPMQWTSFLSAAS 480  
Qy 512 TAIYVYMSFYFFPKTKMYGLFOTSFYFGYMAVFSFALGIMCGAIGYMGTSFVFRKIYT 571  
Db 481 TAIYVYMSFYFFPKTKMYGLFOTSFYFGYMAVFSFALGIMCGAIGYMGTSFVFRKIYT 540  
Qy 572 NVKID 576  
Db 541 NVKID 545

## RESULT 4

US-10-616-263-26  
; Sequence 26, Application US/10616263  
; Publication No. US20040038276A1  
; GENERAL INFORMATION:  
; APPLICANT: Jacobs, Kenneth  
; APPLICANT: McCoy, John M.  
; APPLICANT: Lavallie, Edward R.  
; APPLICANT: Collins-Racie, Lisa A.  
; APPLICANT: Evans, Cheryl  
; APPLICANT: Merberg, David  
; APPLICANT: Treacy, Maurice  
; APPLICANT: Agostino, Michael J.  
; APPLICANT: Steinger II, Robert J.  
; APPLICANT: Spaulding, Vikki  
; APPLICANT: Wong, Gordon G.  
; APPLICANT: Clark, Hilary  
; APPLICANT: Fechtel, Kim  
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM  
; FILE REFERENCE: 00766.000103.5  
; CURRENT APPLICATION NUMBER: US/10/616,263  
; CURRENT FILING DATE: 2003-07-08  
; NUMBER OF SEQ ID NOS: 240  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 26  
; LENGTH: 545  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-616-263-26

Query Match 94.4%; Score 2916; DB 15; Length 545;  
Best Local Similarity 99.8%; Pred. No. 4.7e-259;  
Matches 544; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 32 MNTVGPYHNRQETKYFSLPFCVGSKKSISHYHETLGEALQGVLEFSGLDIKFKDDVMP 91  
Db 1 MNTVGPYHNRQETKYFSLPFCVGSKKSISHYHETLGEALQGVLEFSGLDIKFKDDVMP 60  
Qy 92 ATYCEIDLDKEDKRAFYAIKNHYQWYIDDLPIWGIAGEADENGEDYLLWTKLEIG 151  
Db 61 ATYCEIDLDKEDKRAFYAIKNHYQWYIDDLPIWGIAGEADENGEDYLLWTKLEIG 120  
Qy 152 FNGNRIVDVNLTSEGKVLVPNTKIQMSYSVKWKSVDKFEFDPKYLDPSPFQHRHWF 211

Db 121 FNGNRIVDVNLTSEGKVLVPNTKIQMSYSVKWKSVDKFEFDPKYLDPSPFQHRHWF 180  
Qy 212 SIFNSFMVIFLVGLVSMILMRTLRKDYARYSKEEEMDDMDRLDGBYGMKQVHGDVFRP 271  
Db 181 SIFNSFMVIFLVGLVSMILMRTLRKDYARYSKEEEMDDMDRLDGBYGMKQVHGDVFRP 240  
Qy 272 SSHPLIFSSLGSCQIFAVSLIIVIAMIEDLYTERGSMSTAFVYAATSPVNGYFGG 331  
Db 241 SSHPLIFSSLTGSCQIFAVSLIIVIAMIEDLYTERGSMSTAFVYAATSPVNGYFGG 300  
Qy 332 SLVARQGRRWIKOMFIFGAFILPAMVCGTAFINFIAYYHASRAIPFGTMVAVCCICFF 391  
Db 301 SLVARQGRRWIKOMFIFGAFILPAMVCGTAFINFIAYYHASRAIPFGTMVAVCCICFF 360  
Qy 392 VILPLNLVGTILGRNLGSQLPFCRVNAVPRPIPEKKWFMEPAVIVCLGGLPFGSIFIE 451  
Db 361 VILPLNLVGTILGRNLGSQLPFCRVNAVPRPIPEKKWFMEPAVIVCLGGLPFGSIFIE 420  
Qy 452 MYFIFTSFWAYKIYYVYGFMMVLVILCIIVTCVTVCTYFLLNAEDYPMQWTSFLSAAS 511  
Db 421 MYFIFTSFWAYKIYYVYGFMMVLVILCIIVTCVTVCTYFLLNAEDYPMQWTSFLSAAS 480  
Qy 512 TAIYVYMSFYFFPKTKMYGLFOTSFYFGYMAVFSFALGIMCGAIGYMGTSFVFRKIYT 571  
Db 481 TAIYVYMSFYFFPKTKMYGLFOTSFYFGYMAVFSFALGIMCGAIGYMGTSFVFRKIYT 540  
Qy 572 NVKID 576  
Db 541 NVKID 545

## RESULT 5

US-10-205-219-121  
; Sequence 121, Application US/10205219  
; Publication No. US20030138803A1  
; GENERAL INFORMATION:  
; APPLICANT: Warner-Lambert Company  
; APPLICANT: Lee, Kevin  
; APPLICANT: Dixon, Alistair  
; APPLICANT: Brookbank, Robert  
; APPLICANT: Pincock, Robert  
; TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain  
; FILE REFERENCE: WL-A-018200  
; CURRENT APPLICATION NUMBER: US/10/205,219  
; CURRENT FILING DATE: 2002-07-24  
; PRIOR APPLICATION NUMBER: GB 0118354.0  
; PRIOR FILING DATE: 2001-07-27  
; NUMBER OF SEQ ID NOS: 197  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 121  
; LENGTH: 530  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: EP70-P-iso  
US-10-205-219-121

Query Match 70.8%; Score 2187; DB 14; Length 530;  
Best Local Similarity 80.9%; Pred. No. 5e-192;  
Matches 436; Conservative 12; Mismatches 51; Indels 40; Gaps 7;  
Qy 1 AALWLLLLLPRTADEHEHTYQDKKEVVLWMNTVGPYHNRQETKYFSLPFCVGSKKS 60  
Db 13 AALWLLLLLPRTADEHEHTYQDKKEVVLWMNTVGPYHNRQETKYFSLPFCVGSKKS 72  
Qy 61 SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLDKEDKRAFYAIKNHYQWY 120  
Db 73 SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLDKEDKRAFYAIKNHYQWY 132  
Qy 121 IDDLPIWGIAGEADENGEDYLLWTKLEIGFNGNRIVDVNLTSEGKVL---VPNTKIQ 177  
Db 133 IDDLPIWGIAGEADENGEDYLLWTKLEIGFNGNRIVDVNLTSEGKVLGSKYYPDVI 192







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Db 322 MLYICRGAIITTFVVCYALTSTFISGYVSGGLYSRNGGKNWIKAMVLTASLPFLCFSGIF 381
Qy 363 FINFTAIYHSAIRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQNPFCRVNAVPR 422
Db 382 ALNTIAIFRSLAAIPFGTMVAVFVLMFAFISFPLVLLGTVVGWRNSGAPNPCRVRTIPR 441
Qy 423 PIPEKKWMEPAVIVCLGGLIPFGSIFEMFYFTSFMAKYIYVYVGFMMVLVLICIVT 482
Db 442 PIPEKKWLTPTSVISLMGGLIPFGSIFEMFYFTSFMAKYIYVYVGFMMVLVLICIVT 501
Qy 483 VCVTIVCTYFLNNAEDYRWQWTSFLSAASTAIYVYMYSFYFFKTKMYGLFOTSFYFG 542
Db 502 ICVTIVGTIYFLNNAENYHMQWTSFLSAASTAIYVYLSIYVYVYHVKTKMSGFFQTSFYFG 561
Qy 543 MAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576
Db 562 TLMFCLGLGILCGAIGYLSTLFRRIYRNKID 595
```

## RESULT 10

US-10-437-963-116913

; Sequence 116913, Application US/10437963

; Publication No. US20040123343A1

; GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.

; APPLICANT: Kovalic, David K.

; APPLICANT: Zhou, Yihua

; APPLICANT: Cao, Yongwei

; APPLICANT: Wu, Wei

; APPLICANT: Boukharov, Audrey A.

; APPLICANT: Barbazuk, Brad

; APPLICANT: Li, Ping

; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With

; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53221)B

; CURRENT APPLICATION NUMBER: US/10/437,963

; CURRENT FILING DATE: 2003-05-14

; NUMBER OF SEQ ID NOS: 204966

; SEQ ID NO 116913

; LENGTH: 596

; TYPE: PRT

; ORGANISM: Oryza sativa

; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_2036C.1.1.pap

US-10-437-963-116913

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Query Match 55.6%; Score 1716; DB 16; Length 596;
Best Local Similarity 56.5%; Pred. No. 1.2e-148;
Matches 325; Conservative 91; Mismatches 153; Indels 6; Gaps 5;
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```
Qy 5 LLLLLLPR-TRADEHEHTYQDKBEVLMWNTVGPYHNRQETKYFSLPFCVSGSKSISHY 63
Db 25 LLALATPRPASASDSDHKYKVEEPVKLWNKVGPNPNQETKYHSLPFCQSENPA-AHK 83
Qy 64 HETIGEALQGVLEFSGLDIKFKDDVMPATYCEIDLDKEKDDAFVYAIKHNWQMDID 123
Db 84 WGLGELVGGNELIDSQDIKFLRNEERGSICTLELDSKKVQOQSDAIDNSYWFEEFMD 143
Qy 124 LPWIGVEADENGED-YLWYTKKLEIGFNGNRIVDVNLTSEKGVKLVNPKTKIQMSYV 182
Db 144 L--WGFVGETDKNENKEYLTHKSILVKYNDNRILHVNLTQESPKLLEAGKLDMYYSV 201
Qy 183 KWKSDVKFEDRFDKYLDPSFQHRHWFSLFNSFMVIFLVGLVSMILMRTLRKYARY 242
Db 202 KWLQDTVFAARFEVLDYDPFEHQHWFSLFNSFMVIFLVGLVSMILMRTLRDYAKY 261
Qy 243 SKE-EEMDDMRDLGDEYKQVHGDFRPPSSHPLIFSSLLSGCQIFAVSLIVIAM 301
Db 262 AREDDLESLEDRDVNEESGKLVHGDVFRPPRSLAFSAVVGIGTQALAILLVILVIAV 321
Qy 302 EDLTYERSGMSLTAIFVYAATSPVNGYFGGSLYARQGGRRWIKOMFICAFIIPAMVCGTA 361
```

```
Db 322 GMLVVGSGSIITTFVVCYALTSTFISGYVSGGLYSRNGGKNWIKAMILTASLPFLCFPAIG 381
Qy 362 FFNFNTAIYHSAIRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQNPFCRVNAVPR 421
Db 382 FVLNTIAIFRSLAAIPFGTMVAVFVLMFAFISFPLVLLGTVVGWRNSGAPNPCRVRTIP 441
Qy 422 RPIPEKKWMEPAVIVCLGGLIPFGSIFEMFYFTSFMAKYIYVYVGFMMVLVLICIV 481
Db 442 RPIPEKKWLTPTSVISLMGGLIPFGSIFEMFYFTSFMAKYIYVYVGFMMVLVLICIV 501
Qy 482 TVCVTIVCTYFLNNAEDYRWQWTSFLSAASTAIYVYMYSFYFFKTKMYGLFOTSFYFG 541
Db 502 TICVTIVGTIYFLNNAENYHMQWTSFLSAASTAIYVYLSIYVYVYHVKTKMSGFFQTSFYFG 561
Qy 542 YMAVFTALGIMCGAIGYMGTSFAVRKIYTNVKID 576
Db 562 YTLMFCLGLGILCGAIGYLSTLFRRIYRNKID 596
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## RESULT 11

US-10-739-930-9909

; Sequence 9909, Application US/10739930

; Publication No. US20040216190A1

; GENERAL INFORMATION:

; APPLICANT: Kovalic, David K.

; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH

; FILE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT

; FILE REFERENCE: 38-21(53377)B

; CURRENT APPLICATION NUMBER: US/10/739,930

; CURRENT FILING DATE: 2003-12-18

; NUMBER OF SEQ ID NOS: 11088

; SEQ ID NO 9909

; LENGTH: 595

; TYPE: PRT

; ORGANISM: Triticum aestivum

; FEATURE:

; OTHER INFORMATION: Clone ID: TRIAB-23APR03-C2111\_1.p

US-10-739-930-9909

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Query Match 55.4%; Score 1712; DB 16; Length 595;
Best Local Similarity 55.0%; Pred. No. 2.9e-148;
Matches 321; Conservative 96; Mismatches 155; Indels 12; Gaps 4;
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```
Qy 4 WLLLLLPP-----RTRADEHEHTYQDKBEVLMWNTVGPYHNRQETKYFSLPFCV 54
Db 13 FVLLLSLTAVLAFASPLRASASDSDHKYKAGDSVKLWNKVGPNPNQETKYHSLPFCQ 72
Qy 55 GSKKSISHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLDKEKDDAFVYAIKHN 114
Db 73 PSENP-CHKWGGGGEVLGGNELIDSQDIKFLRNEERGSICTLELDPKKTQQFADAESS 131
Qy 115 YWQMYIDDLPIWIGVEADENGED-YLWYTKKLEIGFNGNRIVDVNLTSEKGVKLVN 173
Db 132 YWPEFFIDDLPLWGFVGETDKNSENKHYLTHKNILVKYNDNRILHVNLTQESPKLDAG 191
Qy 174 TKQMSYVSKKSDVKFEDRFDKYLDPSFQHRHWFSLFNSFMVIFLVGLVSMILMR 233
Db 192 KNLDMTYSAKNVPTDVSFARRFEVLDYDPFEHQHWFSLFNSFMVIFLVGLVSMILMR 251
Qy 234 TLKRDYARYSK-EEMDDMRDLGDEYKQVHGDFRPPSSHPLIFSSLLSGCQIFAVS 292
Db 252 TLANDYAKYARDDDDLESLEDRDVNEESGKLVHGDVFRPPRSLTLLSALVGIGTQALAI 311
Qy 293 LIVIIVAMIEDLTYERSGMSLTAIFVYAATSPVNGYFGGSLYARQGGRRWIKOMFICAF 352
Db 312 LLVILVIAVGLVYVGRGAIITTFIVCYALTSTFISGYVSGGLYSRNGGKNWIKAMILTAS 371
Qy 353 IPAMVCGTAFINFIAYHSAIRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGPN 412
Db 372 FPLHFAIGFALNTIAIFYGSLAAIPGTMVAVFVLMFAFISFPLVLLGTVVGWRNSGAP 431
Qy 413 FPCRNVAVPRPIPEKKWMEPAVIVCLGGLIPFGSIFEMFYFTSFMAKYIYVYVGFMM 472
```



Db 515 YFGVTLMFCLGILCGAVGSLGTLFVRRRIYRNKCD 552

## RESULT 14

US-10-425-115-206340  
; Sequence 206340, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 206340  
; LENGTH: 500  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(500)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_119765C.1.pap  
US-10-425-115-206340

Query Match 46.3%; Score 1430.5; DB 16; Length 500;  
Best Local Similarity 54.9%; Pred. No. 1.8e-122; Indels 7; Gaps 4;  
Matches 269; Conservative 88; Mismatches 126;

Qy	6	LLLLPRTADEHHTYQDKKEEVLWNTVGPYHNROETKYFSLPFCVSGSKKSISHYE	65
Db	14	LLILVPLTAASDSHKQAEPVTLWNKVGPNYPQETYNYSLSLPCCHASE---NHVK	70
Qy	66	--TGEALQGVLEBFGDLKFKDDVMPATYCEITDLDEKRDADFVYAIKHNYWQMIDD	123
Db	71	WGGIGEVGGNELDSQIDIKFGKNVDKATICSLLDLVKAQLSDAIENSYWPEFFIDD	130
Qy	124	LPIWGIAGEADENGED-YILWTKYKLEIGFNGNRIVDVNLTSEGKVKLVNTKIQMSYSV	182
Db	131	LPLMGFVGEADRNNDKYLFTHKNIIVIRYNGNQLIHVNLTQESPKLIDVNKALDNTYSV	190
Qy	183	KWKSDVKFEDRDKYLDPSFQFQRIHWFISFNSFMVVIPLVGLVSMILMRTLKDYARY	242
Db	191	KWEPTNITFAHRFDVILDYPPFQIHWFSIFNSFMVVIPLTGLVSMILMRTLNDYAKY	250
Qy	243	SK-BEEMDDMDRLDGEYGNKQVHGDVFRPSHPLIFSSLLIGSCQIFAVSLIIVAMI	301
Db	251	ARDDDDIETLERDYNESGKLVHGDVFRPPCNVLISALVIGIGTQLAALILVILLAI	310
Qy	302	EDLTERGSMSTAIFVYAATSPVNGVFGGSLYARQGRWKIMQFIGAFLIPAMVCGTA	361
Db	311	GMLYIGRGAIVTTFIVCYALTSTFSTVSGALYSRHGGKWKIKAMANTASLFFPMCFGIG	370
Qy	362	FFINFIAIYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVNAV	421
Db	371	LVLNTIAIFYGLAAIPFGTMVAVVFWILWAFISFPLALLGTVVGRNWSGAPNPNCRVKTIP	430
Qy	422	RPIEKKWFMEPAIVCLGGLPFGSIFEMVFTFSFWAYKIYVYVGMMLVLVILCIV	481
Db	431	RPIEKKWYLTPTSVIALMGLLPGSIFEMVFTFSFWAYKIYVYVGMMLVLVILCIV	490
Qy	482	TVCVTIVCTY 491	
Db	491	XICVTIVGTY 500	

RESULT 15  
US-10-437-963-103141

; Sequence 103141, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 103141  
; LENGTH: 424  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(424)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_1005C.1.pap  
US-10-437-963-103141

Query Match 42.5%; Score 1313; DB 16; Length 424;  
Best Local Similarity 57.7%; Pred. No. 9e-112;  
Matches 240; Conservative 69; Mismatches 105; Indels 2; Gaps 2;

Qy	162	LTSEGKVKLVNTKIQMSYSVKKKSDVKFEDRDKYLDPSFQFQRIHWFISFNSFMVVI	221
Db	10	ISQKSPHLEAGKCLDMTYSVKVQTNVAPARFVYLDYPPFQIHWFSIFNSFMVVI	69
Qy	222	FLVGLVSMILMRTLKDYARYSKE-BEMDDMDRLDGEYGNKQVHGDVFRPSHPLIFSS	280
Db	70	FLTGLVSMILMRTLNDYAKYAREDDDLSELRDVSSEGKLVHGDVFRPPRSLVFLSA	129
Qy	281	LIGSGCQIFAVSLIIVAMIEDLTERGSMSTAIFVYAATSPVNGVFGGSLYARQGR	340
Db	130	FVGIGTQLAALILLVLAIVGMLYVGRGAIITTFIVCYALTSTFISGVSGGLYSRNGK	189
Qy	341	RWIKQMPIGAFLIPAMVCGTAFFINFIAIYHASRAIPFGTMVAVCCICFFVILPLNLV	400
Db	190	NWIKSMILTASLPFLCFSGISGLVLTIAIFYRLAAIPFGTMVAVFVLWAFISFPPLVLLG	249
Qy	401	TILGRNLSGQPNFPCRVNAVPRPIPEKKWFMEPAIVCLGGLPFGSIFEMVFTFSFW	460
Db	250	TVVGRNWSGAPNPNCRVKTIPRPIPEKKWYLTPTSVIALMGLLPGSIFEMVFTFSFW	309
Qy	461	AYKIYVYVGMMLVLVILCIVTVCVTIVCTYFLLNAEDYRWQMTSFLSAASTAIYVYMYS	520
Db	310	NYKVYVYVGMMLVFLIIVTTCVTIVGTYFLLNAENYHQMOTSPFSAASTALYVLYS	369
Qy	521	FYFYFFTKMYGLFQTSFYPGYNAVFTALGCMGAIYNGMTSAFVRKIYTNVKID	576
Db	370	IYTHVTKMKGPFQTSFYFGYTLMFCLGILGICGTVETXST-LFVRRRIYRNKCD	424

Search completed: August 9, 2005, 13:49:21  
Job time : 126.847 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: August 9, 2005, 13:09:36 ; Search time 23.8345 seconds  
(without alignment)  
1804.019 Million cell updates/sec

Title: US-09-319-724B-14  
Perfect score: 3089  
Sequence: 1 AALWLLLLLPRTRADEHEH.....IGYMGTSFVRKIYTNVKID 576

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues  
Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
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2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/1/iaa/PTCUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3089	100.0	579	4	US-09-786-681A-4
2	3089	100.0	582	4	US-09-786-681A-2
3	1107	35.8	257	4	US-09-270-767-32308
4	950.5	30.8	625	3	US-08-959-004-10
5	843.5	27.3	663	3	US-08-959-004-5
6	843.5	27.3	676	4	US-09-949-016-9494
7	694	22.5	667	3	US-08-959-004-11
8	628	20.3	133	4	US-09-270-767-44213
9	628	20.3	133	4	US-09-270-767-59636
10	613	19.8	111	4	US-09-513-999C-7579
11	580	18.8	218	4	US-09-270-767-4281
12	467	15.1	241	4	US-09-248-796A-20311
13	364	11.8	87	4	US-09-513-999C-7785
14	127	4.1	574	4	US-09-107-433-3877
15	127	4.1	605	4	US-09-583-110-4773
16	120.5	3.9	513	4	US-09-543-681A-8279
17	118.5	3.8	492	3	US-09-134-001C-3703
18	117.5	3.8	592	4	US-09-949-016-6953
19	117.5	3.8	609	4	US-09-949-016-8961
20	117.5	3.8	609	4	US-09-949-016-8962
21	115	3.7	502	4	US-09-328-352-6968
22	115	3.7	572	4	US-09-949-016-11237
23	115	3.7	572	4	US-09-949-016-11238
24	112.5	3.6	237	3	US-09-134-001C-3057
25	109	3.5	468	4	US-09-710-279-868
26	109	3.5	468	4	US-09-710-279-1618
27	108.5	3.5	584	4	US-09-693-746-22

28	107.5	3.5	408	2	US-08-742-440A-6	Sequence 6, Appli
29	107	3.5	353	4	US-09-576-160B-6	Sequence 6, Appli
30	106.5	3.4	504	4	US-09-489-039A-8489	Sequence 8489, Ap
31	104.5	3.4	453	1	US-08-439-131A-5	Sequence 5, Appli
32	104.5	3.4	453	1	US-08-440-674-4	Sequence 4, Appli
33	104.5	3.4	453	4	US-08-879-337-6	Sequence 6, Appli
34	104.5	3.4	822	4	US-09-824-734-3	Sequence 3, Appli
35	104	3.4	511	4	US-09-107-532A-6112	Sequence 6112, Ap
36	104	3.4	526	4	US-09-722-377-19	Sequence 16, Appl
37	104	3.4	526	4	US-09-722-377-19	Sequence 19, Appl
38	103	3.3	356	4	US-09-270-767-46804	Sequence 46804, A
39	102.5	3.3	402	4	US-09-270-767-35644	Sequence 35644, A
40	102.5	3.3	402	4	US-09-270-767-50861	Sequence 50861, A
41	102	3.3	407	4	US-09-328-352-5605	Sequence 5605, Ap
42	101.5	3.3	305	4	US-09-583-110-3512	Sequence 3512, Ap
43	101.5	3.3	2938	5	PCT-US94-00198-3	Sequence 3, Appli
44	100	3.2	171	4	US-09-248-796A-20285	Sequence 20285, A
45	99.5	3.2	511	4	US-09-328-352-6365	Sequence 6365, Ap

ALIGNMENTS

RESULT 1

US-09-786-681A-4  
; Sequence 4, Application US/09786681A  
; Patent No. 6692926  
; GENERAL INFORMATION:  
; APPLICANT: HIDAKA, Jun et al.  
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L  
; FILE REFERENCE: 0020-4827P  
; CURRENT APPLICATION NUMBER: US/09/786.681A  
; CURRENT FILING DATE: 2001-01-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: Patent version 3.0  
; SEQ ID NO 4  
; LENGTH: 579  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-786-681A-4

Query Match 100.0%; Score 3089; DB 4; Length 579;  
Best Local Similarity 100.0%; Pred. No. 1.2e-294;  
Matches 576; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	AALWLLLLLPRTRADEHEHTYQDKKEVVLWMTVGPVHNRQETKYKFSLPFCVGSKKSI	60
DB	4	AALWLLLLLPRTRADEHEHTYQDKKEVVLWMTVGPVHNRQETKYKFSLPFCVGSKKSI	63
QY	61	SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLDEKRDFAFYAIKNHYWQY	120
DB	64	SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLDEKRDFAFYAIKNHYWQY	123
QY	121	IDDLPIWGIVGEADENGEDYLYWTKLEIFGPNGNRIVDVNLTSSEKVLVPTNKIOMSY	180
DB	124	IDDLPIWGIVGEADENGEDYLYWTKLEIFGPNGNRIVDVNLTSSEKVLVPTNKIOMSY	183
QY	181	SVKWKKSVDKEDRPDKYLDSPFOHRIHWFISFNFMWVFLVGLVSMILMRTLKDYA	240
DB	184	SVKWKKSVDKEDRPDKYLDSPFOHRIHWFISFNFMWVFLVGLVSMILMRTLKDYA	243
QY	241	RYSEKEEMDDMDRLDGEYGNKQVHGDFRPSHPLIFSSLIIGSCQIFAVSLIIVAM	300
DB	244	RYSEKEEMDDMDRLDGEYGNKQVHGDFRPSHPLIFSSLIIGSCQIFAVSLIIVAM	303
QY	301	IEDLYTERGSMSTAFVYAATS PVNGYFGSLYARQGRRWIKOMFTGAFILPAMVCGT	360
DB	304	IEDLYTERGSMSTAFVYAATS PVNGYFGSLYARQGRRWIKOMFTGAFILPAMVCGT	363
QY	361	APFINFIAIYYHASRAIPFGTWAVCCICFFVILPLNLVGTILGNLSQGNPFCRVNAV	420
DB	364	APFINFIAIYYHASRAIPFGTWAVCCICFFVILPLNLVGTILGNLSQGNPFCRVNAV	423

QY 421 PRPIPEKKWFMEPAVIVCLGGILPGRSIFIEYFIPTSFWAYKIYVYGFNMLVLVILCI 480  
DB 424 PRPIPEKKWFMEPAVIVCLGGILPGRSIFIEYFIPTSFWAYKIYVYGFNMLVLVILCI 483  
QY 481 VTVCVTIVCTYFLNNAEDYRQWTSFLSAASATAIYVYMYSPFYFFFKTKMYGLPQTSFYF 540  
DB 484 VTVCVTIVCTYFLNNAEDYRQWTSFLSAASATAIYVYMYSPFYFFFKTKMYGLPQTSFYF 543  
QY 541 GYMAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576  
DB 544 GYMAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 579

RESULT 2  
US-09-786-681A-2  
; Sequence 2, Application US/09786681A  
; Patent No. 6692926  
; GENERAL INFORMATION:  
; APPLICANT: HIDAKA, Jun et al.  
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I  
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES  
; FILE REFERENCE: 0020-4827P  
; CURRENT APPLICATION NUMBER: US/09/786.681A  
; CURRENT FILING DATE: 2001-01-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 2  
; LENGTH: 582  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-786-681A-2

Query Match 100.0%; Score 3089; DB 4; Length 582;  
Best Local Similarity 100.0%; Pred. No. 1.2e-294;  
Matches 576; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AALWLLLLLPRTADEHEHTYQDKEEVLMWMTVGPVHNRQETKYFSLPFCVGSKKSI 60  
DB 7 AALWLLLLLPRTADEHEHTYQDKEEVLMWMTVGPVHNRQETKYFSLPFCVGSKKSI 66  
QY 61 SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLKEDKDAFYAIKKNHYWYQMY 120  
DB 67 SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLKEDKDAFYAIKKNHYWYQMY 126  
QY 121 IDDLPIWGIAGEADENGEDYLYWTKKLETFGNRNRIVDVNLTSSEKVKLVPNTKIQMSY 180  
DB 127 IDDLPIWGIAGEADENGEDYLYWTKKLETFGNRNRIVDVNLTSSEKVKLVPNTKIQMSY 186  
QY 181 SVKWKSDVKPFEDRFDKYLDPSPFQHRHWFSPFNSFMVIFLGLVSMILMRTLKDYA 240  
DB 187 SVKWKSDVKPFEDRFDKYLDPSPFQHRHWFSPFNSFMVIFLGLVSMILMRTLKDYA 246  
QY 241 RYSKEEEMDDMDRLDGEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIIVAM 300  
DB 247 RYSKEEEMDDMDRLDGEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIIVAM 306  
QY 301 IEDLYTERGSMSTAIFFVYAATSPVNGYFSGSLVARQGRRWIKQMFIGAFLIPAMVCGT 360  
DB 307 IEDLYTERGSMSTAIFFVYAATSPVNGYFSGSLVARQGRRWIKQMFIGAFLIPAMVCGT 366  
QY 361 AFFINFIAIYHASRAIPFGTMVAACCCIPVILPLNLVGTILGRNLSGQNPFCRVNAV 420  
DB 367 AFFINFIAIYHASRAIPFGTMVAACCCIPVILPLNLVGTILGRNLSGQNPFCRVNAV 426  
QY 421 PRPIPEKKWFMEPAVIVCLGGILPGRSIFIEYFIPTSFWAYKIYVYGFNMLVLVILCI 480  
DB 427 PRPIPEKKWFMEPAVIVCLGGILPGRSIFIEYFIPTSFWAYKIYVYGFNMLVLVILCI 486  
QY 481 VTVCVTIVCTYFLNNAEDYRQWTSFLSAASATAIYVYMYSPFYFFFKTKMYGLPQTSFYF 540  
DB 487 VTVCVTIVCTYFLNNAEDYRQWTSFLSAASATAIYVYMYSPFYFFFKTKMYGLPQTSFYF 546

QY 541 GYMAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576  
DB 547 GYMAVFSTALGIMCGAIGYMGTSFAVRKIYTNVKID 582

RESULT 3  
US-09-270-767-32308  
; Sequence 32308, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 32308  
; LENGTH: 257  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
US-09-270-767-32308

Query Match 35.8%; Score 1107; DB 4; Length 257;  
Best Local Similarity 78.2%; Pred. No. 2.2e-100;  
Matches 201; Conservative 27; Mismatches 29; Indels 0; Gaps 0;

QY 180 YSVKWKSDVKPFEDRFDKYLDPSPFQHRHWFSPFNSFMVIFLGLVSMILMRTLKDY 239  
DB 1 YEYNWKPSPKVEFKRFDKYLDPNFFQHRHWFSPFNSFMVIFLGLVSMILMRTLKDY 60  
QY 240 ARYSKEEEMDDMDRLDGEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIIVIA 299  
DB 61 ARYSKEEEMDDMDRLDGEYGWKQVHGDVFRPSPNTLLPSALVGAGVQLISVVFVIMFA 120  
QY 300 MIEDLYTERGSMSTAIFFVYAATSPVNGYFSGSLVARQGRRWIKQMFIGAFLIPAMVCG 359  
DB 121 IVEGLYTERGSMSTAIFFVYAATSPVNGYFSGSLVARQGRRWIKQMFIGAFLIPAMVCG 180  
QY 360 TAFINFIATYHASRAIPFGTMVAACCCIPVILPLNLVGTILGRNLSGQNPFCRVNA 419  
DB 181 TAFINFIATYHASRAIPFGTMVAACCCIPVILPLNLVGTIVGRNLDGQDPFCRVNA 240  
QY 420 VPRPIPEKKWFMEPAVI 436  
DB 241 VPRPIPEKKWFMEPLII 257

RESULT 4  
US-08-959-004-10  
; Sequence 10, Application US/08959004  
; Patent No. 6197543  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Lal, Preeti  
; APPLICANT: Shah, Purvi  
; APPLICANT: Kaser, Matthew  
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE  
; TITLE OF INVENTION: PROTEINS  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS

```
;; SOFTWARE: FastSeq for Windows Version 2.0
;; CURRENT APPLICATION DATA: US/08/959,004
;; PATENT NO. 6197543
;; GENERAL INFORMATION:
;; APPLICANT: Hillman, Jennifer L.
;; APPLICANT: Yue, Henry
;; APPLICANT: Corley, Neil C.
;; APPLICANT: Lal, Preeti
;; APPLICANT: Shah, Purvi
;; APPLICANT: Kaser, Matthew
;; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
;; TITLE OF INVENTION: PROTEINS
;; NUMBER OF SEQUENCES: 11
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Incyte Pharmaceuticals, Inc.
;; STREET: 3174 Porter Drive
;; CITY: Palo Alto
;; STATE: CA
;; COUNTRY: USA
;; ZIP: 94304
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Diskette
;; COMPUTER: IBM Compatible
;; OPERATING SYSTEM: DOS
;; SOFTWARE: FastSeq for Windows Version 2.0
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/959,004
;; FILING DATE: Herewith
;; CLASSIFICATION: 514
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER:
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Billings, Lucy J.
;; REGISTRATION NUMBER: 36,749
;; REFERENCE/DOCKET NUMBER: PF-0414 US
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 650-855-0555
;; TELEFAX: 650-845-4166
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 5:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 663 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; IMMEDIATE SOURCE:
;; LIBRARY: ADRETTUT06
;; CLONE: 2822412
;; US-08-959-004-5

Query Match 27.3%; Score 843.5; DB 3; Length 663;
Best Local Similarity 31.2%; Pred. No. 6.7e-74;
Matches 199; Conservative 120; Mismatches 234; Indels 85; Gaps 16;

QY 9 LLPTRADHEHTYQDKKEVVLMMVTGYPYNNRQTYKYFSLPFCVGGKKSISHYHETLG 68
Db 41 LAPVNFCDKEKSDCKAEIELFVNRLDSVES-VLPYEYTAFPDFCQASEG--KRPSENILG 97
QY 69 EALQVLEFSGLDIKFKDD-----VMPATY-CEIDLDKEKRDFAFYAIKKNHYWQMYID 122
Db 98 QVLFGERIEPSYPKFTFNKCTCKLVTKYHTEKAEDKQKLEFLKKSMLNLYQHHWIVD 157
QY 123 DLPI-W-----GIVGEADENGED--YLLWT----- 144
Db 158 NNPVTWCVDVEDGQRCFPGPIGCIITDKGHAKDACVSSDFHERDTFYIFNHWDIKLY 217
QY 145 YKKLEIGFNGRIV-----DVNLTSGKVKLVKNTKIQMSY 180
Db 218 YHVVTGSGARLVAAKLEPKSFKHTHDKPDCSGPPMDISNKASGEI-----KIATYTY 271
QY 181 SVKWKKSQD-VKPEDRFDKYLDPSFQHRHWFSEIENSFMVIFLYCLVSMILMRLTKDY 239

US-08-959-004-5
;; SOFTWARE: FastSeq for Windows Version 2.0
;; CURRENT APPLICATION DATA: US/08/959,004
;; PATENT NO. 6197543
;; GENERAL INFORMATION:
;; APPLICANT: Hillman, Jennifer L.
;; APPLICANT: Yue, Henry
;; APPLICANT: Corley, Neil C.
;; APPLICANT: Lal, Preeti
;; APPLICANT: Shah, Purvi
;; APPLICANT: Kaser, Matthew
;; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
;; TITLE OF INVENTION: PROTEINS
;; NUMBER OF SEQUENCES: 11
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Incyte Pharmaceuticals, Inc.
;; STREET: 3174 Porter Drive
;; CITY: Palo Alto
;; STATE: CA
;; COUNTRY: USA
;; ZIP: 94304
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Diskette
;; COMPUTER: IBM Compatible
;; OPERATING SYSTEM: DOS
;; SOFTWARE: FastSeq for Windows Version 2.0
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/959,004
;; FILING DATE: Herewith
;; CLASSIFICATION: 514
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER:
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Billings, Lucy J.
;; REGISTRATION NUMBER: 36,749
;; REFERENCE/DOCKET NUMBER: PF-0414 US
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 650-855-0555
;; TELEFAX: 650-845-4166
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 10:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 625 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; IMMEDIATE SOURCE:
;; LIBRARY: GenBank
;; CLONE: 1665777
;; US-08-959-004-10

Query Match 30.8%; Score 950.5; DB 3; Length 625;
Best Local Similarity 35.7%; Pred. No. 1.9e-84;
Matches 214; Conservative 100; Mismatches 212; Indels 73; Gaps 11;

QY 42 QETKYFSLPCVGVKKSISHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCE----- 96
Db 36 QLPVEYSLPCQPSK--ITTKAENLGEVLRGDRIVTPFQVLNSENKKECVLSQSNKP 93
QY 97 IDLDKEKRDFAFYAIKKNHYWQMYIDDLFI-----WGI-VG 131
Db 94 VTLTVEQSLVAERITEDYVYHLLIADNLPVATRLSELYNRSDDKKKEKQVQFEHGYRLG 153
QY 132 EAD-----ENGEDYVLYWK--KLEIGFNGNRIVDNLTSEGVKLV 171
Db 154 FTDVNNKIYLNHLSFIFYHREDMEDEQHTYRVVRPEVIPQSIRLEDLKADEKSSCTLP 213
QY 172 PNT-----KIQMSYVVKWKSQDKVDFEDFKYLDPSFPQHRHWFSEIFNSFM 218
Db 214 EGTNSSPOEIDPTKENQLYFTYSVHWEESDIKWSRWDYLTMSDVQ--IHWFSLINSVV 271
QY 219 MVIFLVGLVSMILMTLRKQVARYSKBEEMDDMDRLDGLDEYGVKQVHGDVFRPSSHPLIF 278
Db 272 VVFFLSGLSMIIITLRKDIANYNKEDDIE---DTWEESGWKLVDHGDVFRPPQYPMIL 327
QY 279 SSLIGSGQIFAVSLIIVIAMIEDLY-TERGSMLSIAFYVAATSPVNGYFGGSLYARQ 337
Db 328 SSLIGSGQLFCMILIVIFVAMGLMSPSSGALMTTACFLFMFGVFGGFSAGRLYRTL 387
QY 338 GGRWKIKQMFICAFILPAMVCTGTAFFINFIAYYHASRAIPGTVMVAVCCICFFVILPLN 397
Db 388 KHRWKKGACFATLYPGVVGICFVNLGCFIWKHSSGAVPPTVWALLCMWFGISLPLV 447
QY 398 LVGTITLGRNLSQPNPFCRVNAVPRPIPEKWFMEPAVIVICLGGILPFGSIFFIEMFYFT 457
Db 448 YLGYYFGFRKQPDN-PVETNQIPQIPQRYVMNRVFGILMAGILPFGAMPFIELFFIFS 506
QY 458 SPWAKIYVYGFMMVLVLICIVTCVITVYFLNADRYRWQWTSFSLSAASTAIYUY 517
Db 507 AIWENQFYVLFGLFLVFLIILVVSQSISIVMVYQLCAEDRYRWMNRNLFVSGGSAFYVL 566
QY 518 MYSFYYPFKTKQYGLFQTSFYGYMAVFSTALGIMCGAIGYMGTSAFVRKIYTNVKID 576
Db 567 VYAIYFVNKLDIVFIPSLYFGYATMALVLSLTLTGITGYAAMVFRKIYAAVKID 625

RESULT 5
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Db 272 SVSPEEDDKIRWASRDYIILSMPTH-IQWFSIMNSLIVLFLSGVMAMIMLRTLHKDI 330
Qy 240 ARYSKEEEMDMRDLDGEYQKOVHGDVFRPPSHPLIFSSLGSGCQIFAVSLIIVIA 299
Db 331 ARYN---QMDSTE-DAQEEFGKLVHGDIFRPPRKGMLLSVFLSGTGQILIMTFVTLFFA 386
Qy 300 MIEDLY-TERGSMLSSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKOMFIGARLIPAMVC 358
Db 387 CLGFLSPANRGMALMTCAVLLWLLGTAGYVAARFYKSGFGEKRWKTNVLLTSLCPGLIVF 446
Qy 359 GTAFFINFIAIYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRNV 418
Db 447 ADFFIMNLLWGESSAAIPGTLVAILALWFCISVPLTFIGAYFGFKKAIEH-PVRTN 505
Qy 419 AVPRPIPEKKWFMEPAVIVCGILPRGSIPIEMFYFTSFWAYKIYVYVGFMMMLVLVIL 478
Db 506 QIPRQIPEQSFYTKPLPGIIMGGILPFGCIPFIQFFILNSIWSHQYMYMFGFLVFLIIL 565
Qy 479 CIVTVCVTVICTYELLNAEDYRWQTSFLSAASAIYVYMYSFYVYFFKTKMYGLFOTSF 538
Db 566 VITCSEATILLCYFHLCAEDYHWMQRSFLTSGTAVYFLIYAVHYFFSKLQITGTASTIL 625
Qy 539 YFGYMAVFSTALGIMCGAIGMGTSAFVRKIYTNVKID 576
Db 626 YFGYTMIMVLIFLFTGTIGTFACFWFVKIYSVVKVD 663

RESULT 6
US-09-949-016-9494
; Sequence 9494, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-03
; PRIOR FILING DATE: 2000-10-03
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9494
; LENGTH: 676
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9494

Query Match 27.3%; Score 843.5; DB 4; Length 676;
Best Local Similarity 31.2%; Pred. No. 6,9e-74;
Matches 199; Conservative 120; Mismatches 234; Indels 85; Gaps 16;

Qy 9 LLPRTADEHEHTVQDEEVVWANTVGPYHNROETKYFSLPCVSGSKSISYHETLG 68
Db 54 LAPVNFCDDEKSDCKAEIELFVRLDSVES-VLPYEYTAFDFOASEG--KRPSENIG 110
Qy 69 BALQGVLEFSGLDIKFKDD-----VMPATY-CEIDDKERKDAFVVAIKHXYWQYVID 122
Db 111 QVLFGERIEPSPYKFTFNKTKCTKLVCTYHTEKAEDKQKLEFLKSMMLNYQHVVVD 170
Qy 123 DLPI-W-----GIVGEADENGED--YYLWT----- 144
Db 171 NMPVTWCYVDVGDQRCNPGFPPIGCIYTDKGAKDACVISSDFHERDTFYIFNHVDIKY 230
Qy 145 YKKLEIGFNGRIY-----DVNLTSEGVKLVPNTKIQMSY 180
Db 231 YHVVETGSMGARLVAALKEPKSFKHTHIDKPDGSGPPMDISNKGSGEI-----KIATY 284
Qy 181 SVKWKSD-VKFERDFDKLDPSFFQRIHWFISFNFMVIFLVGLVSLMILMRTLAKDY 239
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Db 285 SVSPEEDDKIRWASRDYIILSMPTH-IQWFSIMNSLIVLFLSGVMAMIMLRTLHKDI 343
Qy 240 ARYSKEEEMDMRDLDGEYQKOVHGDVFRPPSHPLIFSSLGSGCQIFAVSLIIVIA 299
Db 344 ARYN---QMDSTE-DAQEEFGKLVHGDIFRPPRKGMLLSVFLSGTGQILIMTFVTLFFA 399
Qy 300 MIEDLY-TERGSMLSSTAIFVYAATSPVNGYFGGSLYARQGGRRWIKOMFIGARLIPAMVC 358
Db 400 CLGFLSPANRGMALMTCAVLLWLLGTAGYVAARFYKSGFGEKRWKTNVLLTSLCPGLIVF 459
Qy 359 GTAFFINFIAIYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRNV 418
Db 460 ADFFIMNLLWGESSAAIPGTLVAILALWFCISVPLTFIGAYFGFKKAIEH-PVRTN 518
Qy 419 AVPRPIPEKKWFMEPAVIVCGILPRGSIPIEMFYFTSFWAYKIYVYVGFMMMLVLVIL 478
Db 519 QIPRQIPEQSFYTKPLPGIIMGGILPFGCIPFIQFFILNSIWSHQYMYMFGFLVFLIIL 578
Qy 479 CIVTVCVTVICTYELLNAEDYRWQTSFLSAASAIYVYMYSFYVYFFKTKMYGLFOTSF 538
Db 579 VITCSEATILLCYFHLCAEDYHWMQRSFLTSGTAVYFLIYAVHYFFSKLQITGTASTIL 638
Qy 539 YFGYMAVFSTALGIMCGAIGMGTSAFVRKIYTNVKID 576
Db 639 YFGYTMIMVLIFLFTGTIGTFACFWFVKIYSVVKVD 676

RESULT 7
US-08-959-004-11
; Sequence 11, Application US/08959004
; Patent No. 6197543
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Lal, Preeti
; APPLICANT: Shah, Purvi
; APPLICANT: Kaser, Matthew
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/959,004
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0414 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 667 amino acids
; TYPE: amino acid
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STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 2131246
US-08-959-004-11

Query Match      22.5%; Score 694; DB 3; Length 667;
Best Local Similarity 27.0%; Pred. No. 3.3e-59;
Matches 175; Conservative 116; Mismatches 254; Indels 102; Gaps 14;

QY 21 TYQDKEEVVLWMTYGP---YHNROE-----TYKYSFLPCVGSKKISHSY 63
Db 32 TYRENDNIPLLVHLTPSNYQHKDEGNNVGDKENFLYSYDYNNRPHFCQPKVEKQ 91
QY 64 HETLGEALQGVLEFSGLDIKFDKDVMPATYCEIDLDEKRDADFVAIKNHYWQYIDD 123
Db 92 PESLGSVIFGDIYNSPTQLANLQBECELSCKTVIPGDDAKFINKLKNGFFQNWLLDG 151
QY 124 LP-----IWGIVGEADENGEDYVLT-----YK 146
Db 152 LPAAREVDGRTKTSFYGAGFNLGFVQVTOGTDIETPKGAETTKDVELETRDNVVK 211
QY 147 KLEIGFNGNR---IVDNLTSEKGVKL-----PNT----- 174
Db 212 TYELPYFANHFDIMIEYHDRGEGYRVGVIVPEVPSIKRSSPGTCETTSPLMLDEGNDN 271
QY 175 KIOMYSVKKKSDVKFEDRPKYL---DPSFFQRIHWFISFNFMVMVIFLVGLVSMIL 231
Db 272 EYVFTYSVKFNEASATSWATRWKYLHVDP-----IQWFSLINFLSVVLLSSVVIHSL 326
QY 232 METLAKOVARYSKEREMDDMDLDGEGYKOVHGDVFRPSSHPLIFSLIGSGCQIFAV 291
Db 327 LRALKSDFARYN-ELNLD----DFQDSGKLNHGDVFRSPQSITLSLVGSGVQLFLM 382
QY 292 SLIIVIVAMIEDLY-TERGSMSTAFVYAATSPVNGYFGGSLYARQGRRIKQMFQTA 350
Db 383 VTCSIFFAALGFLSPSSRSLATWFIYALFGVGSYTMGIFYKFPNGPYWKANLILTP 442
QY 351 FLIPAMVCGTAFINFIAYIHASRAIPGTWAVACCICFFVILPLNLVGTILGRNLGSO 410
Db 443 LLVPGAILLIILALNPLFMFVHSSGVIPASTLFFMFLWFLFSIFLSFAGSLIARKCHW 502
QY 411 PNFPCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFPIEMVFIFTSFWAYKIYVYGF 470
Db 503 DEHPTKTNQIARQIPQPPWYLTIPATLIAGIPPGSIAVELYFITSWFKNIYMGFGF 562
QY 471 MMLVLVILCVTVCTIVCTVIFLLNAEDYRWQTSF-LSAASTAIYVVMYSFYFFFKTK 529
Db 563 LFPSFLLLTSLVTLITYHSLCLENNKQWQRFIIGGAGCALYVFIHSI--LFTKFK 620
QY 530 MYGLFQTSFYFGYMAVFSFALGIMCGAIGYMGTSFVFRKIYTNVKID 576
Db 621 LGGFTTIVLVGYSSVISLCLCLVTGSGIFSGISMLFVRKIYSSIKVD 667

RESULT 8
US-09-270-767-44213
; Sequence 44213, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 44213
; LENGTH: 133
; TYPE: PR
; ORGANISM: Drosophila melanogaster
US-09-270-767-44213

Query Match      20.3%; Score 628; DB 4; Length 133;
Best Local Similarity 83.5%; Pred. NO. 9.6e-54;
Matches 111; Conservative 14; Mismatches 8; Indels 0; Gaps 0;

QY 444 PGSIFIFEMVFIPTSFWAYKIYVYVGFNMLVILVICIVTVCTIVCTVIFLLNAEDYRWQ 503
Db 1 PGSIFIFEMVFIPTSFWAYKIYVYVGFNMLVILVICIVTVCTIVCTVIFLLNAEDYRWQ 60
QY 504 TSPLSAASTAIYVVMYSFYFFFKTKMYGLFQTSFYFGYMAVFSFALGIMCGAIGYMGTS 563
Db 61 TSFMAAGSTSIYVAYSYFYFFFKTKMFGLEQTAFYFGYMALFSGALGIICGTGVGVGTN 120
QY 564 AFVRKIYTNVKID 576
Db 121 LFVRKIYSNVKID 133

RESULT 9
US-09-270-767-59636
; Sequence 59636, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 59636
; LENGTH: 133
; TYPE: PR
; ORGANISM: Drosophila melanogaster
US-09-270-767-59636

Query Match      20.3%; Score 628; DB 4; Length 133;
Best Local Similarity 83.5%; Pred. NO. 9.6e-54;
Matches 111; Conservative 14; Mismatches 8; Indels 0; Gaps 0;

QY 444 PGSIFIFEMVFIPTSFWAYKIYVYVGFNMLVILVICIVTVCTIVCTVIFLLNAEDYRWQ 503
Db 1 PGSIFIFEMVFIPTSFWAYKIYVYVGFNMLVILVICIVTVCTIVCTVIFLLNAEDYRWQ 60
QY 504 TSPLSAASTAIYVVMYSFYFFFKTKMYGLFQTSFYFGYMAVFSFALGIMCGAIGYMGTS 563
Db 61 TSFMAAGSTSIYVAYSYFYFFFKTKMFGLEQTAFYFGYMALFSGALGIICGTGVGVGTN 120
QY 564 AFVRKIYTNVKID 576
Db 121 LFVRKIYSNVKID 133

RESULT 10
US-09-513-999C-7579
; Sequence 7579, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59 US2 REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.p
; SEQ ID NO 7579
; LENGTH: 111
; TYPE: PR
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Db 63 MLSTAIFVYAXXSPSEWLF 81  
RESULT 14  
US-09-107-433-3877  
; Sequence 3877, Application US/09107433  
; Patent No. 6800744  
GENERAL INFORMATION:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID  
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE  
THERAPEUTICS  
NUMBER OF SEQUENCES: 5206  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: <Unknown>  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: <Unknown>  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/107,433  
FILING DATE: 30-Jun-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/ 085131  
FILING DATE: May 12, 1998  
APPLICATION NUMBER: 60/051553  
FILING DATE: July 2, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Ariniello, Pamela Deneke  
REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-011  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-5007  
TELEFAX: (781)893-8277  
INFORMATION FOR SEQ ID NO: 3877:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 574 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Streptococcus pneumoniae  
FEATURE:  
NAME/KEY: misc.feature  
LOCATION: (B) LOCATION 1...574  
SEQUENCE DESCRIPTION: SEQ ID NO: 3877:  
US-09-107-433-3877  
Query Match 4.1%; Score 127; DB 4; Length 574;  
Best Local Similarity 19.8%; Pred. No. 0.0014;  
Matches 73; Conservative 60; Mismatches 117; Indels 118; Gaps 17;  
QY 203 FFOHRIHWFISFNSFMVIFLVGLVSMILMRTLKRDYARYSKSEEMDDMDRLDGEYG-- 260  
Db 33 FFRRR-----FYRIVPPVLMVLVMTPTFLVRQDYV-----AGIGQIASV 74  
QY 261 -----WKQVHGDVFRPSSHPLIFSSLGSGCQIFAVSLIIVIAMIEDLYTERGSMLS 313  
Db 75 LGFMTNFYELLTGGSYESQFPHLFVHNWSLAVEVHYIYILWGLAVWFL--STHAKSNGQLK 133  
QY 314 TAIFVYAATSPVNGYFGGSLYARQGRRWIKQMFICAPLIPAMVCGTAFFINFIAIYYHA 373  
Db 134 GMVFLLSAVAFLLISFF-----SMFIGSFLVTSY--SSVYFSSLTHVY--- 173  
QY 374 SRAIIPF--GTMVAVCCICFFVILPLNLVG-----TILGRNLSGQPNFPCRVNAPRPIPEK 427

Db 174 ----PFFLGSMLA-----TIVGVROTTSVKQL-----DK 199  
QY 428 KWFMEPAVIVCLGGLPFGSIFIEMFI-FTSEWAYKIYVYVGMMLVLVILCIVTVCVT 486  
Db 200 IWDLRKTLVVFGG--FGLVLLTFVKFTYLFAYLI-----GFLASLAALAMILAA-- 250  
QY 487 IVCTYFLLNAEDYRWQ---WTSFLSAASTAIYVMYSFYFFFKTK-----MY 531  
Db 251 -----RVLHEKTHIQBPKIISFLADTSYAVILFHPFPFIIFSQTSNLLAVLLTLCYSY 305  
QY 532 GLFQTSFY 539  
Db 306 GFASLSFY 313  
RESULT 15  
US-09-583-110-4773  
; Sequence 4773, Application US/09583110  
; Patent No. 6699703  
GENERAL INFORMATION:  
APPLICANT: Lynn Doucette-Stamm et al.  
TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus  
Pneumoniae for Diagnostics and Therapeutics  
FILE REFERENCE: PATH00-07A  
CURRENT APPLICATION NUMBER: US/09/583,110  
CURRENT FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: US 09/107,433  
PRIOR FILING DATE: 1998-06-30  
PRIOR APPLICATION NUMBER: US 60/085,131  
PRIOR FILING DATE: 1998-05-12  
PRIOR APPLICATION NUMBER: US 60/051,553  
PRIOR FILING DATE: 1997-07-02  
NUMBER OF SEQ ID NOS: 5322  
SEQ ID NO 4773  
LENGTH: 605  
TYPE: PRT  
ORGANISM: Streptococcus pneumoniae  
US-09-583-110-4773  
Query Match 4.1%; Score 127; DB 4; Length 605;  
Best Local Similarity 19.8%; Pred. No. 0.0015;  
Matches 73; Conservative 60; Mismatches 117; Indels 118; Gaps 17;  
QY 203 FFOHRIHWFISFNSFMVIFLVGLVSMILMRTLKRDYARYSKSEEMDDMDRLDGEYG-- 260  
Db 64 FFRRR-----FYRIVPPVLMVLVMTPTFLVRQDYV-----AGIGQIASV 105  
QY 261 -----WKQVHGDVFRPSSHPLIFSSLGSGCQIFAVSLIIVIAMIEDLYTERGSMLS 313  
Db 106 LGFMTNFYELLTGGSYESQFPHLFVHNWSLAVEVHYIYILWGLAVWFL--STHAKSNGQLK 164  
QY 314 TAIFVYAATSPVNGYFGGSLYARQGRRWIKQMFICAPLIPAMVCGTAFFINFIAIYYHA 373  
Db 165 GMVFLLSAVAFLLISFF-----SMFIGSFLVTSY--SSVYFSSLTHVY--- 204  
QY 374 SRAIIPF--GTMVAVCCICFFVILPLNLVG-----TILGRNLSGQPNFPCRVNAPRPIPEK 427  
Db 205 ----PFFLGSMLA-----TIVGVROTTSVKQL-----DK 230  
QY 428 KWFMEPAVIVCLGGLPFGSIFIEMFI-FTSEWAYKIYVYVGMMLVLVILCIVTVCVT 486  
Db 231 IWDLRKTLVVFGG--FGLVLLTFVKFTYLFAYLI-----GFLASLAALAMILAA-- 281  
QY 487 IVCTYFLLNAEDYRWQ---WTSFLSAASTAIYVMYSFYFFFKTK-----MY 531  
Db 282 -----RVLHEKTHIQBPKIISFLADTSYAVILFHPFPFIIFSQTSNLLAVLLTLCYSY 336  
QY 532 GLFQTSFY 539  
Db 337 GFASLSFY 344

Search completed: August 9, 2005, 13:32:30  
Job time : 25.8345 Secs

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Db 18 CCGCGCGCTGTGGCTGCTGCTGCTGCTGCCCGGACCGCGCGCAGCAGCAAC 77  
Qy 61 ACACGTATCAAGATAAAGAGGAAGTTGTTCTATGGATGAATACCTGTGGGCGCTTACCATTA 120  
Db 78 ACACGTATCAAGATAAAGAGGAAGTTGTTCTATGGATGAATACCTGTGGGCGCTTACCATTA 137  
Qy 121 ATCGTCAAGAAACATATAGTACTTTTTCACATTCCTGCTGCTGGGGTCAAAAAAAGTA 180  
Db 138 ATCGTCAAGAAACATATAGTACTTTTTCACATTCCTGCTGCTGGGGTCAAAAAAAGTA 197  
Qy 181 TCAGTCATTACCATGAATCTCTGGGAGAACACATTCAGGGGTTGAATGGAAATTTAGTG 240  
Db 198 TCAGTCATTACCATGAATCTCTGGGAGAACACATTCAGGGGTTGAATGGAAATTTAGTG 257  
Qy 241 GTCTGGATATTAATTTAAAGATGATGTGACGACCACTTACTGTGAAATTTGATTTAG 300  
Db 258 GTCTGGATATTAATTTAAAGATGATGTGACGACCACTTACTGTGAAATTTGATTTAG 317  
Qy 301 ATAAAGAAAGAGAGATGCATTTGTATGCTCATTAATAAATCAATCTGTTACGAGATGT 360  
Db 318 ATAAAGAAAGAGAGATGCATTTGTATGCTCATTAATAAATCAATCTGTTACGAGATGT 377  
Qy 361 ACATAGATGATTTACCAATATGGGTATTTGTGGTGAAGCTCATGAAATGGAGAAATTT 420  
Db 378 ACATAGATGATTTACCAATATGGGTATTTGTGGTGAAGCTCATGAAATGGAGAAATTT 437  
Qy 421 ACTATCTTTGACCTATAAAAAATCTGAAATAGGTTTAAATGGAAATCGAAATTTGATG 480  
Db 438 ACTATCTTTGACCTATAAAAAATCTGAAATAGGTTTAAATGGAAATCGAAATTTGATG 497  
Qy 481 TTAATCTAACCTAGTGAAGGAAGGTGAACCTGTTTCCAAATCTAAATCCAGATGTCAT 540  
Db 498 TTAATCTAACCTAGTGAAGGAAGGTGAACCTGTTTCCAAATCTAAATCCAGATGTCAT 557  
Qy 541 ATTCAGTAAAAATGGAAGAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTG 600  
Db 558 ATTCAGTAAAAATGGAAGAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTG 617  
Qy 601 ATCCGTCCTTTTCAACATCGGATTCATTTGGTTTTCATTTTCAATTTTCAACTCTTCATGATGG 660  
Db 618 ATCCGTCCTTTTCAACATCGGATTCATTTGGTTTTCATTTTCAACTCTTCATGATGG 677  
Qy 661 TGATCTCTCTGCTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATTTATG 720  
Db 678 TGATCTCTCTGCTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAGATTTATG 737  
Qy 721 CTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGACCTAGGAGATCAATATG 780  
Db 738 CTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGACCTAGGAGATCAATATG 797  
Qy 781 GATGAAACAGGTGATGGAGATGATTTAGACCATCAAGTCACCCACTGATATTTTCCT 840  
Db 798 GATGAAACAGGTGATGGAGATGATTTAGACCATCAAGTCACCCACTGATATTTTCCT 857  
Qy 841 CTCGATTTGGTTCTGGATGTCAGATATTTGCTGCTCTCTCATGCTTATTTATTTGTCGAA 900  
Db 858 CTCGATTTGGTTCTGGATGTCAGATATTTGCTGCTCTCTCATGCTTATTTATTTGTCGAA 917  
Qy 901 TGATAGAAGATTTATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTCTCATG 960  
Db 918 TGATAGAAGATTTATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTCTCATG 977  
Qy 961 CTGCTAGCTCTCCAGTGAATGGTTATTTTGAGGAAGTCTGTATGCTAGACAAGGAGAA 1020  
Db 978 CTGCTAGCTCTCCAGTGAATGGTTATTTTGAGGAAGTCTGTATGCTAGACAAGGAGAA 1037  
Qy 1021 GGAGATGATAAAGCAGATGTTTATTTGGGCAATTCCTTATCCAGCTATGTTGTGCGCA 1080  
Db 1038 GGAGATGATAAAGCAGATGTTTATTTGGGCAATTCCTTATCCAGCTATGTTGTGCGCA 1097  
Qy 1081 CTGCTCTTCTTCATCAATTTTCATAGCCATTTTATTAACCATGCTTCAAGGCCATTCCTTTTG 1140  
Db 1098 CTGCTCTTCTTCATCAATTTTCATAGCCATTTTATTAACCATGCTTCAAGGCCATTCCTTTTG 1157

Qy 1141 GAACAATGGTGGCGTTTGTTCATCTGTTTGTGTTTGTGTTTGTCTTAAATCTTGTG 1200  
Db 1158 GAACAATGGTGGCGTTTGTTCATCTGTTTGTGTTTGTGTTTGTCTTAAATCTTGTG 1217  
Qy 1201 GTACAATACTTGGCCGAAATCTGTCAAGTCAAGCCAACTTTCTTGTGCTGCTCAATGCTG 1260  
Db 1218 GTACNAATCTTGGCCGAAATCTGTCAAGTCAAGCCAACTTTCTTGTGCTGCTCAATGCTG 1277  
Qy 1261 TGCCTGCTCTATACCGGAGAAAAATGGTTTCATGAGCCCTGCGGTTATTTGTTGCCCTGG 1320  
Db 1278 TGCCTGCTCTATACCGGAGAAAAATGGTTTCATGAGCCCTGCGGTTATTTGTTGCCCTGG 1337  
Qy 1321 GTGAAATTTTACCTTTTGGTTTCAATCTTATTTGAAATGTAATTTTCATCTTCAGTCTTCT 1380  
Db 1338 GTGAAATTTTACCTTTTGGTTTCAATCTTATTTGAAATGTAATTTTCATCTTCAGTCTTCT 1397  
Qy 1381 GGGCATATAAGATCTAATATGCTATGCTTTCATGATGCTGGTCTGCTGTTATCTGTGCA 1440  
Db 1398 GGGCATATAAGATCTAATATGCTATGCTTTCATGATGCTGGTCTGCTGTTATCTGTGCA 1457  
Qy 1441 TTGTGACTGTCTGTGACTAATTTGTGTCACATAATTTTCTACTAAATGCGAAGATTAAC 1500  
Db 1458 TTGTGACTGTCTGTGACTAATTTGTGTCACATAATTTTCTACTAAATGCGAAGATTAAC 1517  
Qy 1501 GGTGGCAATGGCAAGTTTCTCTCTGCTGATCAACTGCAATCTATGTTTACATGTAAT 1560  
Db 1518 GGTGGCAATGGCAAGTTTCTCTCTGCTGATCAACTGCAATCTATGTTTACATGTAAT 1577  
Qy 1561 CCTTTTACTACTATTTTTCAAAAAAGATGATGCTTATTTTCAAAACATCATTTTACT 1620  
Db 1578 CCTTTTACTACTATTTTTCAAAAAAGATGATGCTTATTTTCAAAACATCATTTTACT 1637  
Qy 1621 TTGGATATATGGCGTATTTTAGCACAGCCTTGGGGATAATGTTGGAGCGATTTGGTTACA 1680  
Db 1638 TTGGATATATGGCGTATTTTAGCACAGCCTTGGGGATAATGTTGGAGCGATTTGGTTACA 1697  
Qy 1681 TGGGAAACAGTGCCTTTGTCGAAAAATCTATACTAATGTAATAATGAGTAGAGACCCA 1740  
Db 1698 TGGGAAACAGTGCCTTTGTCGAAAAATCTATACTAATGTAATAATGAGTAGAGACCCA 1757  
Qy 1741 AGAAACCTGGAACCTTTGGATCAATTTCTTTTTCATAGGGTGGAACTTGACAGCAAAA 1800  
Db 1758 AGAAACCTGGAACCTTTGGATCAATTTCTTTTTCATAGGGTGGAACTTGACAGCAAAA 1817

RESULT 2

US-10-755-466-1  
; Sequence 1, Application US/10755466  
; Publication No. US20040265854A1  
; GENERAL INFORMATION:  
; APPLICANT: HIDAKA, Jun et al.  
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L  
; FILE REFERENCE: 0020-4827P  
; CURRENT APPLICATION NUMBER: US/10/755,466  
; CURRENT FILING DATE: 2004-01-13  
; PRIOR APPLICATION NUMBER: US/09/786,681  
; PRIOR FILING DATE: 2001-04-30  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1  
; LENGTH: 2072  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (49)..(1794)  
US-10-755-466-1

Query Match 100.0%; Score 1800; DB 20; Length 2072;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1800; Conservative 0; Mismatches 0; Indels 0; Gaps 0;









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RESULT 5
US-09-374-046A-25
; Sequence 25, Application US/09374046A
; Publication No. US20030096951A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: LaValle, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steinger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fachtel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: GI 6075-83A
; CURRENT APPLICATION NUMBER: US/09/374.046A
; CURRENT FILING DATE: 1999-08-13
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 25
; LENGTH: 3370
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-374-046A-25

Query Match      99.7%; Score 1794.4; DB 10; Length 3370;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1795; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      5  CGCGCTGGGCTGCTGCTGCTGCTGCCCGGACCGCGGACGACGACGACACAC 64
Db      1  CGCGCTGGGCTGCTGCTGCTGCTGCCCGGACCGCGGACGACGACGACACAC 60

Qy      65  GTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTGTGGGCCCTACCAATAATCG 124
Db      61  GTATCAAGATAAAGAGGAAGTTGTCTTATGGATGAATACTGTGTGGGCCCTACCAATAATCG 120

Qy      125  TCAAGAAACATATAAGTACTTTTCACTTCCATTTCTGTGTGGGGTCAAAAAAAGTATCAG 184
Db      121  TCAAGAAACATATAAGTACTTTTCACTTCCATTTCTGTGTGGGGTCAAAAAAAGTATCAG 180

Qy      185  TCATTACCATGAAACTCTGGGAGAGCACTTCAAGGGGTTGAAATTGGAATTTAGTGTCT 244
Db      181  TCATTACCATGAAACTCTGGGAGAGCACTTCAAGGGGTTGAAATTGGAATTTAGTGTCT 240

Qy      245  GGATATTAAATTTAAAGATGATGTGATGCCACCACTTACTGTGAAATTTGATTAGATAA 304
Db      241  GGATATTAAATTTAAAGATGATGTGATGCCACCACTTACTGTGAAATTTGATTAGATAA 300

Qy      305  AGAAAGAGAGATGCATTTGTATATGCCATTAATAAATCACTTACTGGTACAGATGTACAT 364
Db      301  AGAAAGAGAGATGCATTTGTATATGCCATTAATAAATCACTTACTGGTACAGATGTACAT 360

Qy      365  AGATGATTTTCAATATAGGGGATTTGTTGGTGAGGCTGATGAAATCGAGAAGATTACTA 424
Db      361  AGATGATTTTCAATATAGGGGATTTGTTGGTGAGGCTGATGAAATCGAGAAGATTACTA 420

Qy      425  TCTTTGGACCTATAAAAAAGTTGAAATAGGTTTAAATGGAAATCGAATTTGTGATGTTAA 484
Db      421  TCTTTGGACCTATAAAAAAGTTGAAATAGGTTTAAATGGAAATCGAATTTGTGATGTTAA 480

Qy      485  TCTAACTAGTGAAGGAAGGTGAACCTGGTTCGAAATCTAAATCCAGATGTCATATTC 544
Db      481  TCTAACTAGTGAAGGAAGGTGAACCTGGTTCGAAATCTAAATCCAGATGTCATATTC 540

Qy      545  AGTAAAAATGGAAGAGTCAGATGTGAAATTTGAAGATCGATTTTGACAAATATCTTGATCC 604
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Db      541  AGTAAAAATGGAAGAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCC 600
Qy      605  GTCCCTTTTCAACATCGGATTCATGGTTTCAATTTTCAACTCCCTTCATGATGGTGAT 664
Db      601  GTCCCTTTTCAACATCGGATTCATGGTTTCAATTTTCAACTCCCTTCATGATGGTGAT 660
Qy      665  CTTCTTGCTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAAGAAAGATTATGCTCG 724
Db      661  CTTCTTGCTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAAGAAAGATTATGCTCG 720
Qy      725  GTACAGTAAAGAGAGAAAGATGATGATGATAGAGACCTAGGAGATGAATATGATG 784
Db      721  GTACAGTAAAGAGAGAAAGATGATGATGATGATAGAGACCTAGGAGATGAATATGATG 780
Qy      785  GAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCTCTCT 844
Db      781  GAAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATTTTCTCTCT 840
Qy      845  GATTGGTCTGGATGTCAGATATTTGCTGTGCTCTCATCGTTATTTATGTTGCAATGAT 904
Db      841  GATTGGTCTGGATGTCAGATATTTGCTGTGCTCTCATCGTTATTTATGTTGCAATGAT 900
Qy      905  AGAAGATTTATATCTCAGAGGGGATCAATGCTCAGTACAGCCATATTTGCTATGCTGC 964
Db      901  AGAAGATTTATATCTCAGAGGGGATCAATGCTCAGTACAGCCATATTTGCTATGCTGC 960
Qy      965  TAGCTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGAGAGAGAG 1024
Db      961  TAGCTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGAGAGAGAG 1020
Qy      1025  ATGGAFAAAGCAGATGTTTATTTGGGCAATTCCTTATCCAGCTATGTTGTCACATGC 1084
Db      1021  ATGGAFAAAGCAGATGTTTATTTGGGCAATTCCTTATCCAGCTATGTTGTCACATGC 1080
Qy      1085  CTTCTTCATCAATTTTATAGCCATTTATTAACCATGCTTCAAGAGCCATTCCTTTTGAAC 1144
Db      1081  CTTCTTCATCAATTTTATAGCCATTTATTAACCATGCTTCAAGAGCCATTCCTTTTGAAC 1140
Qy      1145  AATGGTGGCGTTTGTGTCATCTGTTTTTTTGTATTTCTTCTCTTAAATCTTGTGTTGATC 1204
Db      1141  AATGGTGGCGTTTGTGTCATCTGTTTTTTTGTATTTCTTCTCTTAAATCTTGTGTTGATC 1200
Qy      1205  AATACTTGGCGGAATCTGTCAAGTCCCACTTCTTGTGCTGCTCAATGCTGTGCC 1264
Db      1201  AATACTTGGCGGAATCTGTCAAGTCCCACTTCTTGTGCTGCTCAATGCTGTGCC 1260
Qy      1265  TCGTCCCTATACCGGAGAAAAATGGTTTCAAGAGCCCTGCGGTTATTTGTTGCCCTGGGTG 1324
Db      1261  TCGTCCCTATACCGGAGAAAAATGGTTTCAAGAGCCCTGCGGTTATTTGTTGCCCTGGGTG 1320
Qy      1325  AATTTTACCTTTTGGTTCAATCTTTTATGAAATGTATTTTCACTTCAAGTCTTTTCTGGGC 1384
Db      1321  AATTTTACCTTTTGGTTCAATCTTTTATGAAATGTATTTTCACTTCAAGTCTTTTCTGGGC 1380
Qy      1385  ATATAAGATCTATATGCTCTATGCTTCAAGTCCCTGCTGCTGCTGTTATCTGTGCTATGT 1444
Db      1381  ATATAAGATCTATATGCTCTATGCTTCAAGTCCCTGCTGCTGCTGTTATCTGTGCTATGT 1440
Qy      1445  GACTGTCTGTGCTACATTTGTGTCACATATTTTCTACTAAATGCAAGATTAACCGGTG 1504
Db      1441  GACTGTCTGTGCTACATTTGTGTCACATATTTTCTACTAAATGCAAGATTAACCGGTG 1500
Qy      1505  GCAATGAGCAAGTTTCTCTCTCTGTCATCAATGCAATCTATGTTTACATGATTTCTCT 1564
Db      1501  GCAATGAGCAAGTTTCTCTCTCTGTCATCAATGCAATCTATGTTTACATGATTTCTCT 1560
Qy      1565  TTACTACTATTTTTCAAAACAAAGATGATGCTTATTTTCAACATCAATTTTACTTTGG 1624
Db      1561  TTACTACTATTTTTCAAAACAAAGATGATGCTTATTTTCAACATCAATTTTACTTTGG 1620
Qy      1625  ATATATGGCGGTATTTAGCACAGCCTTTGGGGAATAATGTTGGAGCGATTTGTTACATGGG 1684
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QY 1505 GCAATGGACAGTCTTCTCTGCTGCAATCACTGCAATCTATGTTTACATGTTTCTTT 1564  
Db |||||||  
QY 1501 GCAATGGACAGTCTTCTCTGCTGCAATCACTGCAATCTATGTTTACATGTTTCTTT 1560  
Db |||||||  
QY 1565 TTACTACTATTTTTCAAAACAAAAGATGATGGCTTATTTTCAAAACATCATTTTACTTTGG 1624  
Db |||||||  
QY 1625 ATATATGGCGGTATTTAGCACAGCCTTGGGGATTAATGTGTGGAGCGGATTTGTTTACATGGG 1684  
Db |||||||  
QY 1681 AACAAAGTCCCTTTGTCCGAAAATCTATACCTAAATGTGAAATTCAGTAGACCCCAAGAA 1744  
Db |||||||  
QY 1745 AACCTGGAACCTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1800  
Db |||||||  
QY 1741 AACCTGGAACCTTTGGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1796

## RESULT 7

US-09-915-582-29  
; Sequence 29, Application US/09915582  
; Patent No. US20020120103A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 17 Human Secreted Proteins  
; FILE REFERENCE: P8723P1  
; CURRENT APPLICATION NUMBER: US/09/915,582  
; CURRENT FILING DATE: 2001-07-27  
; PRIOR APPLICATION NUMBER: PCT/US01/01431  
; PRIOR FILING DATE: 2001-01-17  
; PRIOR APPLICATION NUMBER: 60/179,065  
; PRIOR FILING DATE: 2000-01-31  
; PRIOR APPLICATION NUMBER: 60/180,628  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/231,968  
; PRIOR FILING DATE: 2000-09-12  
; NUMBER OF SEQ ID NOS: 97  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 29  
; LENGTH: 3076  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (3064)  
; OTHER INFORMATION: n equals a,t,g, or c

US-09-915-582-29

Query Match 97.4%; Score 1753; DB 9; Length 3076;  
Best Local Similarity 98.8%; Pred. No. 0;  
Matches 1762; Conservative 3; Mismatches 18; Indels 0; Gaps 0;

QY 18 CTGCTGCTGCTGCTGCCCCGGACCCGGCGGACGAGCACGACATCAAGATAAA 77  
Db |||||  
QY 13 CTGCAGGTACCGGTCCGGAATTTCCCGGGTCGACSCACGCMCGCACGTATCAAGATAAA 72  
Db |||||  
QY 78 GAGGAAGTGTCTTATGGATGAATPACTGTTGGGCCCTTACCATATCGTCAAGAAACATAT 137  
Db |||||  
QY 73 GAGGAAGTGTCTTATGGATGAATPACTGTTGGGCCCTTACCATATCGTCAAGAAACATAT 132  
Db |||||  
QY 138 AAGTACATTTTCACTTCCATCTTGTGTGGGGTCAAAAAAGATATCACTCATTTACCATGAA 197  
Db |||||  
QY 133 AAGTACATTTTCACTTCCATCTTGTGTGGGGTCAAAAAAGATATCACTCATTTACCATGAA 192  
Db |||||  
QY 198 ACTCTGGGAGAACACTTCAAGGGGTGAATGGAAATTTAGTGGTCTGGATATTTAAATTT 257  
Db |||||  
QY 193 ACTCTGGGAGAACACTTCAAGGGGTGAATGGAAATTTAGTGGTCTGGATATTTAAATTT 252  
Db |||||  
QY 258 AAAGATGATGTGATGCCAGGCACCTTACTGTGAAATTCATTTAGATAAAGAAAGAGAGAT 317  
Db |||||

Db 253 AAAGATGATGTGATGCCAGCCACTTACTGTGAAATTCATTTAGATAAAGAAAGAGAGAT 312  
QY 318 GCATTTTGTATATGCCATAAAAAATCATTTACTGGTACCAGATGTACATAGATGATTTTACCA 377  
Db |||||||  
QY 313 GCATTTTGTATATGCCATAAAAAATCATTTACTGGTACCAGATGTACATAGATGATTTTACCA 372  
Db |||||||  
QY 378 ATATGGGGTATTTGTTGGTGGGCTGATGAAATGGAGAAAGATTTACTATCTTTGGACCTAT 437  
Db |||||||  
QY 373 ATATGGGGTATTTGTTGGTGGGCTGATGAAATGGAGAAAGATTTACTATCTTTGGACCTAT 432  
Db |||||||  
QY 438 AAAAAACCTTCAAAATAGGTTTTAAATGGAAATTCGAATTTGTGATGTTAAATCTAACTAGTGAA 497  
Db |||||||  
QY 433 AAAAAACCTTCAAAATAGGTTTTAAATGGAAATTCGAATTTGTGATGTTAAATCTAACTAGTGAA 492  
Db |||||||  
QY 498 GGAAGGTGAAACTGGTTCAAAATACAAAATCCAGATGCATATTCAGTAAAAATAGAAA 557  
Db |||||||  
QY 493 GGAAGGTGAAACTGGTTCAAAATACAAAATCCAGATGCATATTCAGTAAAAATAGAAA 552  
Db |||||||  
QY 558 AAGTCAGATGTGAAATTTGAAAGATCCGATTTTGACAAATATCTTGATCCGCTCTTTTTCAA 617  
Db |||||||  
QY 553 AAGTCAGATGTGAAATTTGAAAGATCCGATTTTGACAAATATCTTGATCCGCTCTTTTTCAA 612  
Db |||||||  
QY 618 CATCGGATTCATTTGGTTCCTTCAACTCTTCAATGATGGTGATCTTCTTGGTGGGC 677  
Db |||||||  
QY 613 CATCGGATTCATTTGGTTCCTTCAACTCTTCAATGATGGTGATCTTCTTGGTGGGC 672  
Db |||||||  
QY 678 TTAGTTTCAATGATTTTAAATGAGAACATTTAAGAAAAAGATTTATGCTCGGTACAGTAAAGAG 737  
Db |||||||  
QY 673 TTAGTTTCAATGATTTTAAATGAGAACATTTAAGAAAAAGATTTATGCTCGGTACAGTAAAGAG 732  
Db |||||||  
QY 738 GAAGNAATGATGATATGGATAGAGACCTAGGAGATGAATATGGATGGAACAGGTGCAT 797  
Db |||||||  
QY 733 GAAGNAATGATGATATGGATAGAGACCTAGGAGATGAATATGGATGGAACAGGTGCAT 792  
Db |||||||  
QY 798 GAGATGATTTTATAGACCATCAAGTCAACCACTGATATTTTCTCTCTGATGGTTCGGA 857  
Db |||||||  
QY 793 GAGATGATTTTATAGACCATCAAGTCAACCACTGATATTTTCTCTCTGATGGTTCGGA 852  
Db |||||||  
QY 858 TGTGAGATATTTGCTGTGCTCTCATGCTTATTTGTTGCAATGATGAGAAATTTATAT 917  
Db |||||||  
QY 853 TGTGAGATATTTGCTGTGCTCTCATGCTTATTTGTTGCAATGATGAGAAATTTATAT 912  
Db |||||||  
QY 918 ACTGAGAGGGGATCAATGCTCAGTCAGCCATATTTGCTATGCTGCTAGCTCTCCAGTG 977  
Db |||||||  
QY 913 ACTGAGAGGGGATCAATGCTCAGTCAGCCATATTTGCTATGCTGCTAGCTCTCCAGTG 972  
Db |||||||  
QY 978 AATGTTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGAGGAGATGATAAAGCAG 1037  
Db |||||||  
QY 973 AATGTTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGAGGAGATGATAAAGCAG 1032  
Db |||||||  
QY 1038 ATGTTTATTTGGGGCATTTCTTATCCAGCTATGGTGTGGCACTGCTTCTTCATCAAT 1097  
Db |||||||  
QY 1033 ATGTTTATTTGGGGCATTTCTTATCCAGCTATGGTGTGGCACTGCTTCTTCATCAAT 1092  
Db |||||||  
QY 1098 TCCATAGCCATTTTATACCATGCTTCAAGAGCCATTTCTTTTGGAAACAATGGTGGCCGTT 1157  
Db |||||||  
QY 1093 TCCATAGCCATTTTATACCATGCTTCAAGAGCCATTTCTTTTGGAAACAATGGTGGCCGTT 1152  
Db |||||||  
QY 1158 TGTGATCTGTTTTTTTTTGTATTTCTTCTCTAAATCTTGTGGTACAATACTTTGGCCGA 1217  
Db |||||||  
QY 1153 TGTGATCTGTTTTTTTTTGTATTTCTTCTCTAAATCTTGTGGTACAATACTTTGGCCGA 1212  
Db |||||||  
QY 1218 AATCTGTAGGTGAGCCCAATCTTCTTGTGCTGATGCTGTGCTCTCTCTATACCG 1277  
Db |||||||  
QY 1213 AATCTGTAGGTGAGCCCAATCTTCTTGTGCTGATGCTGTGCTCTCTCTATACCG 1272  
Db |||||||  
QY 1278 GAGAAAAATGGTTCATGGAGCCTGGGTTTATGTTTGTCTGGTGGAAATTTTACCTTTT 1337  
Db |||||||  
QY 1273 GAGAAAAATGGTTCATGGAGCCTGGGTTTATGTTTGTCTGGTGGAAATTTTACCTTTT 1332  
Db |||||||  
QY 1338 GGTTCATCTTTTAAATGATATTTTCACTTCCAGCTCTTTCTGGGCATATAAGATCTAT 1397  
Db |||||||  
QY 1333 GGTTCATCTTTTAAATGATATTTTCACTTCCAGCTCTTTCTGGGCATATAAGATCTAT 1392  
Db |||||||

Qy	1398	TATGCTATAGGCTTCATGATGCTGGTGGTGGTATCTGTGCAATGTGACTGTCTGTGTG	1457
Db	1393	TATGCTATAGGCTTCATGATGCTGGTGGTGGTATCTGTGCAATGTGACTGTCTGTGTG	1452
Qy	1458	ACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGT	1517
Db	1453	ACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAATGGACAAGT	1512
Qy	1518	TTTCTCTGCTGTCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTT	1577
Db	1513	TTTCTCTGCTGTCATCAACTGCAATCTATGTTTACATGTATTCCTTTTACTACTATTTT	1572
Qy	1578	TTCAAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTTGATATATGGCCGTA	1637
Db	1573	TTCAAAAACAAAGATGTATGGCTTATTTCAAACATCATTTTACTTTTGATATATGGCCGTA	1632
Qy	1638	TTTTAGCACAGCCTTTGGGGATTAATGTGTGAGCGAATGGTTACATGGGAAACAAGTGCCTTT	1697
Db	1633	TTTTAGCACAGCCTTTGGGGATTAATGTGTGAGCGAATGGTTACATGGGAAACAAGTGCCTTT	1692
Qy	1698	GTCCGAAAAATCTATACTAAATGTGAAAAATTGACTAGAGACCACAGAAAAACCTGGAACTTT	1757
Db	1693	GTCCGAAAAATCTATACTAAATGTGAAAAATTGACTAGAGACCACAGAAAAACCTGGAACTTT	1752
Qy	1758	GGATCAATTTCTTTTTCATAGGGGTGGAACTTTCACACAGCAAAA	1800
Db	1753	GGATCAATTTCTTTTTCATAGGGGTGGAACTTTCACACAGCAAAA	1795

## RESULT 8

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US-10-277-802-29
; Sequence 29, Application US/10277802
; Publication No. US20030190707A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 17 Human Secreted Proteins
; FILE REFERENCE: PS723P1
; CURRENT APPLICATION NUMBER: US/10/277,802
; CURRENT FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 09/915,582
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: PCT/US01/01431
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/231,968
; PRIOR FILING DATE: 2000-09-12
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
; LENGTH: 3076
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (3064)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-277-802-29

```

Query Match	97.4%;	Score 1753;	DB 16;	Length 3076;
Best Local Similarity	98.8%;	Pred. No. 0;		
Matches 1762;	Conservative 3;	Mismatches 18;	Indels 0;	Gaps 0;
Qy 18	CTGCTGCTGCTGCTCCCGGACCCGGGGGAGCAGCAGCAGCAGCAGCAGTATCAAGATAAA	77		
Db 13	CTGCAGGTACCGTCCGGAAATTCCTGGGTGCGACSCACGCGMCGCACGTATCAAGATAAA	72		
Qy 78	GAGGAAGTTGTCCTTATGATGTAATCTGTTGGGCCCCCTACCATAAATCGTCAAGAAACATAT	137		
Db 73	GAGGAAGTTGTCCTTATGATGTAATCTGTTGGGCCCCCTACCATAAATCGTCAAGAAACATAT	132		

QY	138	AAGTACATTTTCACTTCATTCATCTCTGTGGGGTCAAAAAAAGATCAGTCAATACCATGAA	197
DB	133	AAGTACATTTTCACTTCATTCATCTCTGTGGGGTCAAAAAAAGATCAGTCAATACCATGAA	192
QY	198	ACTCTGGAGAAACACCTTCAAGGGGTGAATTTGGAATTTAGTGGTCTGGATATTAATTT	257
DB	193	ACTCTGGAGAAACACCTTCAAGGGGTGAATTTGGAATTTAGTGGTCTGGATATTAATTT	252
QY	258	AAAGATCATCTGATGCCAGCCACTTACTGTGAAATTTGATTTAGATAAAGAAAAGAGAGAT	317
DB	253	AAAGATCATCTGATGCCAGCCACTTACTGTGAAATTTGATTTAGATAAAGAAAAGAGAGAT	312
QY	318	GCATTTCTATATGCCATAAAAAATCAATTACTGGTACCAGATGTACATAGATGAATTAACA	377
DB	313	GCATTTCTATATGCCATAAAAAATCAATTACTGGTACCAGATGTACATAGATGAATTAACA	372
QY	378	ATATGGGGTATTTGTTGGTGAAGCTGATGAAAAATGGAGAGATTACTATCTTTTCGACCTAT	437
DB	373	ATATGGGGTATTTGTTGGTGAAGCTGATGAAAAATGGAGAGATTACTATCTTTTCGACCTAT	432
QY	438	AAAAAACTTGGAAATAGGTTTTTAATGGAAATCGAAATGTTGATGTTAATCTAACTAGTGA	497
DB	433	AAAAAACTTGGAAATAGGTTTTTAATGGAAATCGAAATGTTGATGTTAATCTAACTAGTGA	492
QY	498	GGAAAGGTGAAACTGGTTCCAAATACATAAAATCCAGATGTCATATTACGTAAAAATGGAA	557
DB	493	GGAAAGGTGAAACTGGTTCCAAATACATAAAATCCAGATGTCATATTACGTAAAAATGGAA	552
QY	558	AAGTCAGATGTGAATTTGAAGATCGAATTTGACAAATATCTCGATCGTCTTTTTTCAA	617
DB	553	AAGTCAGATGTGAATTTGAAGATCGAATTTGACAAATATCTCGATCGTCTTTTTTCAA	612
QY	618	CATCGGATTCATTTGGTTTTTCAAATTTTCAAATCTCTTTCATGATGGTGATCTTTCTGGTGGC	677
DB	613	CATCGGATTCATTTGGTTTTTCAAATTTTCAAATCTCTTTCATGATGGTGATCTTTCTGGTGGC	672
QY	678	TTAGTTCAATGATTTTAAATGAGAAACATTAAGAAAGATTTATGCTCGGTACAGTAAAGAG	737
DB	673	TTAGTTTCAATGATTTTAAATGAGAAACATTAAGAAAGATTTATGCTCGGTACAGTAAAGAG	732
QY	738	GAAGAAATGGAATGATATGGATAGAGACCTAGGAGATGAATATGGATGGAAACAGGTGCAT	797
DB	733	GAAGAAATGGAATGATATGGATAGAGACCTAGGAGATGAATATGGATGGAAACAGGTGCAT	792
QY	798	GGAGATGTATTTAGACCATCAAGTCACCCACATGATATTTTCTCTCTGATTTGGTCTGGGA	857
DB	793	GGAGATGTATTTAGACCATCAAGTCACCCACATGATATTTTCTCTCTGATTTGGTCTGGGA	852
QY	858	TGTCAGATATTTTGTGTGTCTCTCATCGTTATTTATTTCTGCAATGATAGAGATTTATAT	917
DB	853	TGTCAGATATTTTGTGTGTCTCTCATCGTTATTTATTTCTGCAATGATAGAGATTTATAT	912
QY	918	ACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTTGTCTATGCTACGTCTCCAGTG	977
DB	913	ACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTTGTCTATGCTACGTCTCCAGTG	972
QY	978	AATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAGATGATGAAGACAG	1037
DB	973	AATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAGATGATGAAGACAG	1032
QY	1038	ATGTTTATTTGGGCATTCCTTATCCAGCTATGTTGTGTGGCATGCTCTTCTCATCAAT	1097
DB	1033	ATGTTTATTTGGGCATTCCTTATCCAGCTATGTTGTGTGGCATGCTCTTCTCATCAAT	1092
QY	1098	TTTCATAGCCATTTATTTACCATGCTTTCAAGAGCCATTCCTTTTGGAAACAATGGTGGCGGTT	1157
DB	1093	TTTCATAGCCATTTATTTACCATGCTTTCAAGAGCCATTCCTTTTGGAAACAATGGTGGCGGTT	1152
QY	1158	TGTTGCATCTGTTTTTTTTTGTATTTCTTCTCTTAATCTTTGTGTCATAACTTTGGCCGA	1217
DB	1153	TGTTGCATCTGTTTTTTTTTGTATTTCTTCTCTTAATCTTTGTGTCATAACTTTGGCCGA	1212





Db 1033 ATGTTTATTTGGGCATTCCTTATCCAGCTATGTTGTTGGCACTGCTTCTTCATCAAT 1092  
Qy 1098 TTATAGCAATTTATACATGCTTCAAGAGCCATTCCTTTGGNACAATGGTGGCGTT 1157  
Db 1093 TTATAGCAATTTATACATGCTTCAAGAGCCATTCCTTTGGNACAATGGTGGCGTT 1152  
Qy 1158 TGTTCATCTGTTTTTTTGTATTTCTTCTCTAAATCTTTGTTGGTACAAATCTTGGCCGA 1217  
Db 1153 TGTTCATCTGTTTTTTTGTATTTCTTCTCTAAATCTTTGTTGGTACAAATCTTGGCCGA 1212  
Qy 1218 AATCTGTACAGTACAGCCAACTTTCTTGTGTGTCAATGTGTGCTGCTGCTTATACCG 1277  
Db 1213 AATCTGTACAGTACAGCCAACTTTCTTGTGTGTCAATGTGTGCTGCTGCTTATACCG 1272  
Qy 1278 GAGAAAAATGGTTTCAAGAGCCGCTGCTGCTTATTTGCTGCTGGTGGAAATTTTACCTTTT 1337  
Db 1273 GAGAAAAATGGTTTCAAGAGCCGCTGCTGCTTATTTGCTGCTGGTGGAAATTTTACCTTTT 1332  
Qy 1338 GGTTCAAATCTTTATTTGAAATGATTTTCACTTCACTGCTTTCTGGCCATATAAGATCTAT 1397  
Db 1333 GGTTCAAATCTTTATTTGAAATGATTTTCACTTCACTGCTTTCTGGCCATATAAGATCTAT 1392  
Qy 1398 TATGCTATGGCTTCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1457  
Db 1393 TATGCTATGGCTTCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1452  
Qy 1458 ACTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1517  
Db 1453 ACTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1512  
Qy 1518 TTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1577  
Db 1513 TTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1572  
Qy 1578 TTCAAAACAAAGATGATGGCTTATTTCAAAATCATCATTTTCACTTTGGATATATGGCGTA 1637  
Db 1573 TTCAAAACAAAGATGATGGCTTATTTCAAAATCATCATTTTCACTTTGGATATATGGCGTA 1632  
Qy 1638 TTTAGCACACCTTGGGATATATGTTGGAGCGATTTGTTACATGGGAACAGTGCCTTT 1697  
Db 1633 TTTAGCACACCTTGGGATATATGTTGGAGCGATTTGTTACATGGGAACAGTGCCTTT 1692  
Qy 1698 GTCCGAAAATCTATCTAATCTGAAATTTGACTAGAGACCCCAAGAAACCTTGGAACTTT 1757  
Db 1693 GTCCGAAAATCTATCTAATCTGAAATTTGACTAGAGACCCCAAGAAACCTTGGAACTTT 1752  
Qy 1758 GGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1800  
Db 1753 GGATCAATTTCTTTTTCATAGGGGTGGAACTTGCACAGCAAAA 1795

RESULT 10  
US-10-205-219-122  
; Sequence 122, Application US/10205219  
; Publication No. US20030138803A1  
; GENERAL INFORMATION:  
; APPLICANT: Warner-Lambert Company  
; APPLICANT: Lee, Kevin  
; APPLICANT: Dixon, Alistair  
; APPLICANT: Brooksbank, Robert  
; APPLICANT: Pinnock, Robert  
; TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain  
; FILE REFERENCE: WL-A-018200  
; CURRENT APPLICATION NUMBER: US/10/205,219  
; PRIOR FILING DATE: 2002-07-24  
; PRIOR APPLICATION NUMBER: GB 0118354.0  
; PRIOR FILING DATE: 2001-07-27  
; NUMBER OF SEQ ID NOS: 197  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 122  
; LENGTH: 3389  
; TYPE: DNA

; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: EP70-p-iso  
US-10-205-219-122  
Query Match 94.9%; Score 1709; DB 15; Length 3389;  
Best Local Similarity 99.0%; Pred. No. 0;  
Matches 1783; Conservative 0; Mismatches 10; Indels 8; Gaps 6;  
Qy 1 CCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 60  
Db 54 CCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 113  
Qy 61 ACAGTATCAAGATAAAGAGAGAAAGTGTCTTATGATGAATACCTGTTGGGCCCTTACCATA 120  
Db 114 ACAGTATCAAGATAAAGAGAGAAAGTGTCTTATGATGAATACCTGTTGGGCCCTTACCATA 173  
Qy 121 ATCGTCAAGAAACATATAAGTACTTTTACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTG 180  
Db 174 ATCGTCAAGAAACATATAAGTACTTTTACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTG 233  
Qy 181 TCAGTCAATTCATGAAACTCTGGGAGAGCACTTCAAGGGGTGCAATTTGGAATTTAGTG 240  
Db 234 TCAGTCAATTCATGAAACTCTGGGAGAGCACTTCAAGGGGTGCAATTTGGAATTTAGTG 293  
Qy 241 GTCTGGATATTAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTTGATTTAG 300  
Db 294 GTCTGGATATTAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTTGATTTAG 353  
Qy 301 ATAAAGAAAGAGAGATGATGATTTGATATGATGATGATGATGATGATGATGATGATGATG 360  
Db 354 ATAAAGAAAGAGAGATGATGATTTGATATGATGATGATGATGATGATGATGATGATGATG 413  
Qy 361 ACATAGATGATTTTACCAATATGGGATATTTGTTGGTGGCTGATGAAATTTGGAGAGATTT 420  
Db 414 ACATAGATGATTTTACCAATATGGGATATTTGTTGGTGGCTGATGAAATTTGGAGAGATTT 473  
Qy 421 ACTATCTTTGGACCTTATAAAAACTTGAATAGGTTTTTAATGGAAATCGAATTTGTTGATG 480  
Db 474 ACTATCTTTGGACCTTATAAAAACTTGAATAGGTTTTTAATGGAAATCGAATTTGTTGATG 533  
Qy 481 TTAATCTTAATAGTGAAGAAAGTGAACCT-GGTTCCAAATCTATAAATCCAGATGTCA 539  
Db 534 TTAATCTTAATAGTGAAGAAAGTGAACCTGGGTTCCAAATCTATAAATCCAGATGTCA 593  
Qy 540 TATTTCAGTAAATGGAAGAGTCAAGATGTAATTTGAAGATCGATTTTGAACAAATATCTT 599  
Db 594 TATTTCAGTAAATGGAAGAGTCAAGATGTAATTTGAAGATCGATTTTGAACAAATATCTT 651  
Qy 600 GATCCGCTCTTTTTCACATCGGATTCATTTGGTTTTTCAATTTTCAACTCCCTTCATGATG 659  
Db 652 GATC--GTCCCTTTTTCACATCGGATTCATTTGGTTTTTCAATTTTCAACTCCCTTCATGATG 709  
Qy 660 GTGATCTTCTTGGTGGCTTAGTTTCAATGATTTTAAATGAGNACATTAAGAAAGATTTAT 719  
Db 710 GTGATCTTCTTGGTGGCTTAGTTTCAATGATTTTAAATGAGNACATTAAGAAAGATTTAT 769  
Qy 720 GCTCGGTACAGTAAAGAGAGAAATGATGATGATGATGATGATGATGATGATGATGATGAT 779  
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Qy 780 GGATGGAACACAGGTGCATGGAGATGATTTTATAGACCATCAAGTCAACCATGATATTTTCC 839  
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Qy 900 ATGATAGAGATTTTATATCTAGAGAGGGATCAATGCTCAGTACAGCCATATTTGTTCTAT 959  
Db 950 ATGATAGAGATTTTATATCTAGAGAGGGATCAATGCTCAGTACAGCCATATTTGTTCTAT 1009





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Db 950 ATGATAGAAGATTATATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTAT 1009
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Qy 1800 A 1800
Db 1847 A 1847
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RESULT 12

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US-10-062-674-1697
; Sequence 1697, Application US/10062674
; Publication No. US2004000559A1
; GENERAL INFORMATION:
; APPLICANT: Loring, Jeanne F.; Kaser, Matthew R.
; TITLE OF INVENTION: MARKERS OF NEURONAL DIFFERENTIATION AND MORPHOGENESIS
; FILE REFERENCE: PA-0026-1 CIP
; CURRENT APPLICATION NUMBER: US/10/062,674
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; CURRENT FILING DATE: 2002-01-30
; PRIOR APPLICATION NUMBER: US 09/625,102
; PRIOR FILING DATE: 2000-07-24
; NUMBER OF SEQ ID NOS: 2217
; SOFTWARE: PERL Program
; SEQ ID NO 1697
; LENGTH: 6197
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US2004000559A1 233927.4
; LOCATION: (1) ... (6197)
; OTHER INFORMATION: a, t, c, g, or other
US-10-062-674-1697
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Query Match 56.2%; Score 1011.6; DB 17; Length 6197;
Best Local Similarity 84.6%; Pred. No. 6.8e-238; Indels 97; Gaps 38;
Matches 1605; Conservative 0; Mismatches 195;

Qy 1 CCGCGCGCTGTGCTGCTG-CTGCTGCTGCTGCTGCCCGGAC-CGGGGCGGACGAGCAGCA 58
Db 4 CCGCGCGCTGTGCTGCTGTTTCTGCTGCTGCTGCCCGGACTCCGGGCGGAGCAGCAGCA 63
Qy 59 ACACACGCTATCAAGATAAAGAGGAAGTTGTCTTATGATGAATACT--GTTGGGCGCTTAC 116
Db 64 ACACACGCTGCAAGATAAAGAGGAAGTTGTCTTATGATGAATACTTTGTTGGGCGCTTAC 123
Qy 117 CATTAATCGTCAAGAAAACATATAAGTACTTTTCACTTCCATTCCTGTGTGGGCTC---AAAA 173
Db 124 AAAATTCGTCAAGAAAACCTTTTAAAGTACTTTTCACTTCCATTCCTGTGTGGGCTCAAAAAA 183
Qy 174 AAAAGTATCATGCTATTACCACTGGGAGAGCACTTCAAGGGTTTGAATTTGGAA 233
Db 184 AAAAGTATCATGCTATTACCACTGGGAGAGCACTTCAAGGGTTTGAATTTGGAA 243
Qy 234 TTTAGTGTCTGGATATTTAAATTTAAAGTATGATGCGGACCTT-ACGTGAAA 291
Db 244 TTTAGTGTCTGGATATTTAAATTTAAAGTATGATGCGGACCTTCACTGTGAAC 303
Qy 292 TTG-ATTAGATAAG-AAAAAGAGATGCAITTTGTATATGCCATAAAATCATTACTG 349
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Qy 407 AAATG-GAAGAAGATTACTATC--TTTGGACCTATAAAAAAACTTGAAT--AGGTTTAAAT 461
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Qy 462 GGAATCGAA-----TTGTGTAGTATTAATCTAACTAGTGAAGGAAGGTGAACCTGG 513
Db 484 GGAATCGGAAGTTGTTGTATGTTATATCTAACTACGTGAAGAGAAAGAGTGAACATGG 543
Qy 514 TTCCAAATCTAATAATCCAGATGTCATATTCAGTAAATGGAAGAAAGTGAACATGG 570
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Qy 1765 TTTCTTTTTCATAGGGGT-CGAACTTTCACAGCAAAA 1800  
Db 1864 TTTCTTTTTCATAGGGGTGGGAACTTGCACAGCAAAA 1900  
RESULT 13  
US-10-264-237-1414  
; Sequence 1414, Application US/10264237  
; Publication No. US2004009491A1  
; GENERAL INFORMATION:  
; APPLICANT: Birse et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PA131P1  
; CURRENT APPLICATION NUMBER: US/10/264,237  
; PRIOR FILING DATE: 2002-10-04  
; PRIOR APPLICATION NUMBER: PCT/US01/16450  
; PRIOR FILING DATE: 2001-05-18  
; PRIOR APPLICATION NUMBER: US 60/205,515  
; PRIOR FILING DATE: 2000-05-19  
; NUMBER OF SEQ ID NOS: 2876  
; SOFTWARE: PatentIn Ver. 3.1  
; SEQ ID NO 1414  
; LENGTH: 1070  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
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; LOCATION: (1047)..(1047)  
; OTHER INFORMATION: n equals a.t,g, or c  
; US-10-264-237-1414  
Query Match 39.8%; Score 716.4; DB 17; Length 1070;  
Best Local Similarity 92.6%; Pred. No. 1.3e-165;









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QY 361 ACATAGATGATTTACCAATATGGGGTATTTGTTGGTGAGGCTGATGAAATCGAGAAGATT 420
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QY 421 ACTATCTTTGGACCTATAAAACTTGAAATAGGTTTTAAATGGAATCGAATGTTGATG 480
Db 485 ACTATCTTTGGACCTATAAAACTTGAAATAGGTTTTAAATGGAATCGAATGTTGATG 544
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QY 1741 AGAAAACTCGGAACCTTTGGATCAATTTCTTTTTCATAGGGGTGGAACCTTGCAACAGCAAAA 1800
Db 1805 AGAAAACTCGGAACCTTTGGATCAATTTCTTTTTCATAGGGGTGGAACCTTGCAACAGCAAAA 1864
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## RESULT 3

US-09-621-976-18829  
; Sequence 18829, Application US/09621976  
; Patent No. 6639063

; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Jobert, S.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
; FILE REFERENCE: GENSET.054PR2  
; CURRENT APPLICATION NUMBER: US/09/621,976  
; CURRENT FILING DATE: 2000-07-21  
; NUMBER OF SEQ ID NOS: 19335  
; SOFTWARE: Patent.pm  
; SEQ ID NO 18829  
; LENGTH: 444  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-621-976-18829

Query Match 24.7%; Score 444; DB 4; Length 444;

Best Local Similarity 100.0%; Pred. No. 2.2e-112; Mismatches 0; Indels 0; Gaps 0;  
Matches 444; Conservative 0;

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QY 486 CTAACTAGTGAAGGAAAGGTGAACTGGTTCCAAATCTTAAATCCAGATGTCATATTC 545
Db 1 CTAACTAGTGAAGGAAAGGTGAACTGGTTCCAAATCTTAAATCCAGATGTCATATTC 60
QY 546 GTAAATGGAAAAAGTCAGATGTAATTTGAGATCGATTTGACAAATATCTTCATCCG 605
Db 61 GTAAATGGAAAAAGTCAGATGTAATTTGAGATCGATTTGACAAATATCTTCATCCG 120
QY 606 TCCTTTTTCACATCGGATTCATTTGTTTTCATTTTCAACTCTTCAATGATGTTGATC 665
Db 121 TCCTTTTTCACATCGGATTCATTTGTTTTCATTTTCAACTCTTCAATGATGTTGATC 180
QY 666 TTCTTTGTTGGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAAAGATTATGCTCG 725
Db 181 TTCTTTGTTGGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAAAGATTATGCTCG 240
QY 726 TACAGTAAAGAGAAAGAAATGGAATGGAATAGAGACCTAGGAGATGAATATGGATGG 785
Db 241 TACAGTAAAGAGAAAGAAATGGAATGGAATAGAGACCTAGGAGATGAATATGGATGG 300
QY 786 AAACAGGTGCATGGAGATGTTATTTAGACCATCAAGTCACCCACTGATATTTTCTCTCTG 845
Db 301 AAACAGGTGCATGGAGATGTTATTTAGACCATCAAGTCACCCACTGATATTTTCTCTCTG 360
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Qy 846 ATTGTTCTGATGTCAGATATTTGCTGTCTCATCGTTATTATTATTGTTGCAATGATA 905  
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Db 361 ATTGTTCTGATGTCAGATATTTGCTGTCTCATCGTTATTATTATTGTTGCAATGATA 420  
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Qy 906 GAAGATTTATATACCTGAGAGGGGA 929  
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Db 421 GAAGATTTATATACCTGAGAGGGGA 444  
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## RESULT 4

US-09-513-999C-3708  
; Sequence 3708, Application US/09513999C  
; Patent No. 6783961  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Duclert, A.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; Patent No. 6783961  
; FILE REFERENCE: 59.US2.REG  
; CURRENT APPLICATION NUMBER: US/09/513,999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 3708  
; LENGTH: 440  
; TYPE: DNA  
; ORGANISM: Homo sapiens

FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 180..440  
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; NAME/KEY: misc\_feature  
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; NAME/KEY: UNSURE  
; LOCATION: 2  
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; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 55  
; OTHER INFORMATION: Xaa=Ala or Asp or Gly or Val

FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 73  
; OTHER INFORMATION: Xaa=Ala or Asp  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 74  
; OTHER INFORMATION: Xaa=Lys or Thr  
US-09-513-999C-3708

Query Match 21.3%; Score 383.4; DB 4; Length 440;  
Best Local Similarity 95.7%; Pred. No. 1.2e-95;  
Matches 420; Conservative 5; Mismatches 8; Indels 6; Gaps 3;

Qy 574 TTGAAGATCGATTTTGACAAATATCTTGATCCGTCCTTTTTCACATCGGATTCATTGGT 633  
|||||  
Db 2 TTGAAGATCGATTTTGACAAATATCTTGATCCGTCCTTTTTCACATCGGATTCATTGGT 61  
|||||  
Qy 634 TTTCAATTTTCAACTCTTCATGATGCTGATCTTCTTGGTGGCTTAGTTTCAATGATTT 693  
|||||  
Db 62 TTTCAATTTTCAACTCTTCATGATGCTGATCTTCTTGGTGGCTTAGTTTCAATGATTT 121  
|||||  
Qy 694 TAATGAGACATTTAAGAAAAG----ATTATGCTCGGTACAGTAAAGAGGAAGAAATGGAT 749  
|||||  
Db 122 TAATGAGACATTTAAGAAAAGAAATTAATGCTCGGTACAKTAAAGAGGAAGAAATGGAT 181  
|||||  
Qy 750 GAT-ATGGATAGAGACCTAGGAGATGAATATGATGGAACAGGTGCGATCGAGATGTTT 808  
|||||  
Db 182 GAGATGGATAGAGACCTAGGAGATGAATATGATGGAACAGGTGCGATCGAGATGTTT 241  
|||||  
Qy 809 TAGACCATCAAGTCACCCACTGATATTTTCTCTGATTGGTTCTCGATGTCAGATATT 868  
|||||  
Db 242 TAGACCATCAAGTCACCCACTGATATTTTCTCTGATTGGTTCTCGATGTCAGATATT 301  
|||||  
Qy 869 TGCTGTCTCTCATCGTTATTATTGTTGCAATCATAGAAAGATTTATATATCTGAGAGGG 928  
|||||  
Db 302 TGCTGTCTCTCATCGTTATTATTGTTGCAATCATAGAAAGATTTATATATCTGAGAGGG 361  
|||||  
Qy 929 ATCAATGCTCAGTACAGCCATATTTGCTATGCTGCTACGCT-CCAGTCAATGGTTATT 987  
|||||  
Db 362 ATCAATGCTCAGTACAGCCATATTTGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCT 421  
|||||  
Qy 988 TTGGAGGAAGTCTGTATGC 1006  
|||||  
Db 422 TTGGAGGAAGTCTGTATGC 440  
|||||

## RESULT 5

US-09-270-767-679/c  
; Sequence 679, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 679  
; LENGTH: 771  
; TYPE: DNA  
; ORGANISM: Drosophila melanogaster  
US-09-270-767-679

Query Match 20.5%; Score 369.8; DB 4; Length 771;  
Best Local Similarity 67.7%; Pred. No. 8.9e-92;  
Matches 518; Conservative 0; Mismatches 247; Indels 0; Gaps 0;

Qy 546 GTAAATGGAAGTTCAGATGTAATTTGAAGATCGATTTGACAAATATCTTGATCCG 605  
|||||  
Db 765 GTCACTGGAAGCCCAAGGTGGAGTTCAAGATCGATTTGACAAAGTACCTGGATCCC 706  
|||||



[illegible]

## RESULT 6

```

US-09-270-767-15961/c
US-09-270-767-15961, Application US/09270767
; Sequence 15961, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15961
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-15961

```

RESULT 7

```

US09/513,999C-3502
; Sequence 3502, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J. B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J. Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 3502
; LENGTH: 433
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:

```

```
; NAME/KEY: CDS
; LOCATION: 100...432
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 86
; OTHER INFORMATION: m=a or c
US-09-513-999C-3502

Query Match      20.3%; Score 364.8; DB 4; Length 433;
Best Local Similarity 98.9%; Pred. No. 1.6e-90;
Matches 366; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 60 CACACGTATCAAGATAAAGAGGAAGTCTCTATGGAATGATCTATGCGCCCTACCAT 119
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 64 CAGCAGTATCAAGATAAAGAGGAGTGTCTTATGGAATGATCTATGCGCCCTACCAT 123
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 120 AATCGTCAAGAAAACATATAAGTACTTTTCACTTCCATTCTGTGGGGTCAAAAAAAGT 179
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 124 AATCGTCAAGAAAACATATAAGTACTTTTCACTTCCATTCTGTGGGGTCAAAAAAAGT 183
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 180 ATCAGTCAATACCAATGAAACTCTGGGAGAGCACTTCAAGGGTTGAATTTGGAATTAGT 239
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 184 ATCAGTCAATACCAATGAAACTCTGGGAGAGCACTTCAAGGGTTGAATTTGGAATTAGT 243
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 240 GGTCTGGATATAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTTGATTTA 299
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 244 GGTCTGGATATAAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTTGATTTA 303
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 300 GATAAAGAAAAGAGAGATGCAATTTGTATATGCCATAAAAAATCATTTACTGGTACCAGATG 359
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 304 GATAAAGAAAAGAGAGATGCAATTTGTATATGCCATAAAAAATCATTTACTGGTACCAGATG 363
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 360 TACATAGATGATTTACCAATATGGGATTTGTTGGTGAAGGCTGATGAAATTTGGAAGAT 419
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 364 TACATAGATGATTTACCAATATGGGATTTGTTGGTGAAGGCTGATGAAATTTGGAAGAT 423
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 420 TACTATCTTT 429
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 424 TACTATCTTT 433
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 8
US-09-270-767-28434
; Sequence 28434, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28434
; LENGTH: 571
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-28434

Query Match      12.8%; Score 230.8; DB 4; Length 571;
Best Local Similarity 72.7%; Pred. No. 1.8e-53;
Matches 298; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

Qy 1330 TACCTTTGGTTCATCTTTAATGAAATGTAATTCATCTTCACGCTCTTTCTGGGCATATA 1389
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 1390 AGATCTATTATGCTATGCTTCATGATGCTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTG 1449
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 61 AGATCTACTAGCTCTACGGCTTCATGTTGCTGGTGTTCAGCATCCTGACTGTGTGCTACCG 120
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 1450 TCTGTGTGACTATTGTGTGCACATATTTTCTACTAATGCGAGATTTACCGTGGCAAT 1509
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 121 TGTGCGTCACCATCGTGTGCACCTACTTCTCTGCTAAATGCCGAGATTTACCGATGGCAGT 180
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 1510 GGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGATTTCTCTTTTACT 1569
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 181 GGACGAGTTTCATGGCTGCGGGCTCCACGTCGATTTACGTTGACGCCTATTTCTTCTATT 240
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 1570 ACTATTTTTTCAAAACAAAGATGTAATGCTGCTTATTTTCAAAACATATTTTACTTTGGATATA 1629
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 241 ACTTCTTCTTTAAACCAAAATGTTTCGGTCTGTTTCCAAACGGCCTTCTACTTTGGCTACA 300
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 1630 TGGCGGTTATTAGCACAGCCTTGGGATAATGTTGGAGGATTTGGTTACATGGAACAA 1689
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 301 TGGCAGCTCTTCAGCGGCGCCTTGGGCATTTCTCGGCACCGTGGCTATGTGGGCACGA 360
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 1690 GTGCTTTTGTCCGAAAAATCTATTAATGTAATAATTTGACTAGAGACCC 1739
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 361 ATCTCTTTGTGGCAAAATCTATTCCAATGTGAAATAGACTAAGAGCCC 410
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 9
US-09-270-767-12633
; Sequence 12633, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12633
; LENGTH: 1151
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-12633

Query Match      12.8%; Score 230.8; DB 4; Length 1151;
Best Local Similarity 72.7%; Pred. No. 2.6e-53;
Matches 298; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

Qy 1330 TACCTTTTGGTTCATCTTTAATGAAATGTAATTCATCTTCACGCTCTTTCTGGGCATATA 1389
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 1390 AGATCTATTATGCTATGCTTCATGATGCTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTG 1449
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 61 AGATCTACTAGCTCTACGGCTTCATGTTGCTGGTGTTCAGCATCCTGACTGTGTGCTACCG 120
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 1450 TCTGTGTGACTATTGTGTGCACATATTTTCTACTAATGCGAGATTTACCGTGGCAAT 1509
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 121 TGTGCGTCACCATCGTGTGCACCTACTTCTCTGCTAAATGCCGAGATTTACCGATGGCAGT 180
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 1510 GGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGATTTCTCTTTTACT 1569
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 181 GGACGAGTTTCATGGCTGCGGGCTCCACGTCGATTTACGTTGACGCCTATTTCTTCTATT 240
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 1570 ACTATTTTTTCAAAACAAAGATGTAATGCTGCTTATTTTCAAAACATATTTTACTTTGGATATA 1629
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 241 ACTTCTTCTTTAAACCAAAATGTTTCGGTCTGTTTCCAAACGGCCTTCTACTTTGGCTACA 300
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 1630 TGGCGGTTATTAGCACAGCCTTGGGATAATGTTGGAGGATTTGGTTACATGGAACAA 1689
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 301 TGGCAGCTCTTCAGCGGCGCCTTGGGCATTTCTCGGCACCGTGGCTATGTGGGCACGA 360
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 1690 GTGCTTTTGTCCGAAAAATCTATTAATGTAATAATTTGACTAGAGACCC 1739
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 361 ATCTCTTTGTGGCAAAATCTATTCCAATGTGAAATAGACTAAGAGCCC 410
Db |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 10
US-09-949-016-3623
; Sequence 3623, Application US/09949016
```



; TELEFAX: 650-845-4166  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2805 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: ADRETUT06  
; CLONE: 2822412  
US-08-959-004-6

Query Match 12.6%; Score 227.6; DB 3; Length 2805;  
Best Local Similarity 51.9%; Pred. No. 3.3e-52; Indels 18; Gaps 3;  
Matches 596; Conservative 0; Mismatches 54;

```
Qy 592 AATATCTTTGATCCGTCCTTTTTTCAACATCGAATTCATTTGGTTTTCATTTTCAATTTTCAACTCCT 651
Db 1044 ACTATATCTGGAGTCTATGCTCATACCCACATTCAGTGGTTAGCATATGAAATCCC 1103

Qy 652 TCATGATGGTGAATCTCTTGGTGGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAA 711
Db 1104 TGGTCATTTGTTCTCTTCTATCTGGAATGGTAGCTATGATTAATGACGGACACTGCACA 1163

Qy 712 AAGATTATGCTCGCTACAGTAAAGAGGAGAAATGGATGATATGGATAGACCTAGGAG 771
Db 1164 AAGATATTTGCTAGATATAATCAGATGGACTCTCGGAAGATGCCAG-----G 1211

Qy 772 ATGAATATGGATGAAACAGGTGTCATGGAGATGATTTAGACCATCAAGTCACCCACTGA 831
Db 1212 AAGAAATTTGGCTGAAACTGTTTCAATGGTGATATATCCGTCCTCCAGAAAGGGATGC 1271

Qy 832 TATTTTCTCTCTGATTTGTTCTGATGTCAGATATTTGCTGTCCTCTCATCTGTTATTA 891
Db 1272 TGCTATCAGTCTTCTTAGGATCCGGACACAGATTTTAAATTAATGACCTTTGTGACTCTAT 1331

Qy 892 TTGTTGCAATGATAGAGATTTATATAGTGGAGGATCAATGCTCAGTAC---AGCCA 948
Db 1332 TTTTCGCTTGCTGGGATTTTTTGACCTGCCAACCGAGGACGCTGATGACGTGTGCTG 1391

Qy 949 TATTTGTCTATGCTGCTACGTCCTCAGTGAATGTTATTTTGGAGGAAGTCTGATGCTA 1008
Db 1392 TGGTCCTGTGGTCTGCTGGGCACCCCTGCAGCTATGTTGCTGCCAGATTTCTATAAGT 1451

Qy 1009 GACAAGGAGGAAGAGATAGGATAAAGCAGATGTTTATTTGGGGCAATTCCTTATCCACGTA 1068
Db 1452 CCTTTGGAGGTGAGAAAGTGGAAAAACAAATGTTTATTAACATCATTTCTTTGCTCTGGGA 1511

Qy 1069 TGGTGTGGCACTGCGCTTCTTCATCAATTTTCATAGCCATTTATTAACATGCTTCAAGAG 1128
Db 1512 TTGTAATTTGTCGACTTCTTATATAATGAATCTGATCCTCTGGGGAGAGGATCTTCAGAG 1571

Qy 1129 CCATTCCTTTTGGAAACAATGGTGGCCGTTTGTTCATCTCTGTTTATTTTATTTCTCTC 1188
Db 1572 CTATTCCTTTTGGACACATGTTGGCATATTTGGCCCTTTGTTCTGCAATCTGTGCTC 1631

Qy 1189 TAAATCTTTTGGTACAAATCTTGGCCGAATCTGTGAGGTTCAGCCCACTTTTCTTGTGTC 1248
Db 1632 TGACGTTTATTTGGTGCATCTTTGGTTTAAAGAGAAATGCCATTTGAACAC---CCAGTTC 1688

Qy 1249 GTGTCAATGCTGTGCTGCTCTATACCGGAGAAAAAATGGTTTCAAGAGCCTCGGTTA 1308
Db 1689 GAACCAATTCAGATTTCCACGTCAGATCTCTGAACAGTGGTTCTACACGAAGCCCTTGCCTG 1748

Qy 1309 TTGTTTGGCTGGGTGGAATTTTACCTTTTGGTTTCAATCTTTTATTTGAAATGATTTTCACT 1368
Db 1749 GTATATCATGGGAGGATTTTGGCCCTTTGGCTGCATCTTTATACAACTTTTCTTCATTC 1808

Qy 1369 TCAGTCTTTTCTGGGCATATAAGATCTATATGATGCTATGCTTCAATGATGCTGGTGTGG 1428
Db 1809 TGAATAGTATTTGGTCAACACAGATGATTAATACATGTTTGGCTTCTCTATTTCTGGTGTTA 1868
```

## RESULT 12

US-09-270-767-14715  
; Sequence 14715, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 14715  
; TYPE: DNA  
; ORGANISM: *Drosophila melanogaster*  
; US-09-270-767-14715

Query Match 9.0%; Score 161.2; DB 4; Length 995;  
Best Local Similarity 59.3%; Pred. No. 4e-34;  
Matches 274; Conservative 0; Mismatches 188; Indels 0; Gaps 0;

```
Qy 31 TGCCCCCGGACCCGGCGGACGAGCAGAACACACAGTATCAAGATATAAGAGAGAACTTGTCT 90
Db 532 TGTCACTCTCCAGGCAGATGAGCACAATCACAAGTACATACCCGGAGGAGGTGTAC 591

Qy 91 TATGATGAATATCTGTTGGGCCCTTACATTAATCGTCAAGAAACATATAAGTACTTTTTCAC 150
Db 592 TGTGATGAACACCGTGGGCCCTTACCAACATCGCAGAGAGCGTACGCTACTTCTCTC 651

Qy 151 TTCCATTTCTGTGGGTCAAAAAAAGATAGTCAATACCATGAACTCTGGGAGAAG 210
Db 652 TCCCTTTTTCAGTGGCCAAAAGTCTCTGATATCCCACTACCAAGACCTGAGCGAGG 711

Qy 211 CACTTCAAGGGGTTGAATTTGGAATTTAGTGGTCTGGATATTTAAATTTTAAAGATGATGTGA 270
Db 712 CGCTGCAAGGAGTTCGAGTTCAGTGGCTACGAGATGGAGTTCACAGGCGACGCC 771

Qy 271 TGCAGGCCATTTACTGTGAAATTTGATTTAGATAAAGAAAAAGAGATGCAATTTGTATATG 330
Db 772 CCAATCGGTCACTCTGATGGTCACTTTCAGGAGGAGAGCGCCAGGSCATTCACCTATG 831

Qy 331 CCATAAAAATCATTAATCTGATCCAGATGATACATAGATGATTTACCAATTTGGGTATTTG 390
Db 832 CCGTGAAGAACGAGTACTGGTACCAATGTACATCGATGGACTGCCCCATTTGGGGAAAAAG 891

Qy 391 TTGGTCAAGGCTGATGAAAAATGGGAGAGATTTACTATCTTTTGGACCTATAAAAAAATCTGAAA 450
```

Db 892 TCGGTGAGCGGACGAGCGGATGCAAGTACTATATCTTACGACCAAGAAGTTGACCA 951  
Qy 451 TAGGTTTAAAGGAATCGAATGTTGATGTTAACTCACTA 492  
Db 952 TCGGCTACAATGGCCAGCAAAATCGGTGATATACCCCTGACCA 993

RESULT 13  
US-09-248-796A-6208  
; Sequence 6208, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; CURRENT FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 6208  
; LENGTH: 726  
; TYPE: DNA  
; ORGANISM: Candida albicans  
US-09-248-796A-6208

Query Match 7.4%; Score 132.8; DB 4; Length 726;  
Best Local Similarity 51.0%; Pred. No. 2.3e-26;  
Matches 367; Conservative 0; Mismatches 347; Indels 6; Gaps 2;

Qy 1014 GGAGGAAGGAGATGGAAGAAGCAGATGTTTATGGGGCATTCCTATCCAGCTATGGTG 1073  
Db 13 GGTGGTGACAATTCGAATTTGAATATGTTTGGACACCAAGTTTATAGTACAGGGATTTTG 72  
Qy 1074 TGTGGCAGTCCTTCTTCATCAATTCATAGCCATTTATCCAGCTTCAGAGCCATT 1133  
Db 73 TCTGTGGTTTCGTGTGTGAATTTCTTTTAAATTCAGTACAATCTTCGGTCTATT 132  
Qy 1134 CTTTGTGAAACAATGGTGCCGCTTGTGTCATCTGTTTTTTTGTATTCTTCTCTCAAT 1193  
Db 133 CATATGGGGAATGTTGGCAATGCTTAAATTTGGTTCATTTATCGATTCATTAAGT 192  
Qy 1194 CTTGTTGTPACAATACTTGGCCGAATCTGTCAAGTCAGCCCAACTTTCCTGTGCTGTC 1253  
Db 193 GTTATTGGATCAATTTAGCTAGTAATAGCAATATTATATC---GGTACCAGTGAGAACT 249  
Qy 1254 AATGCTGCTCGTCTCTATACGGAGAAAATGGTTTCATGGAGCCTGCGGTATTGTT 1313  
Db 250 AATCAAAATCCAGACAAATTCCTACTCAACCATGATGTTTAAAGTACTATCCCGGTAATG 309  
Qy 1314 TGCCTGGTGGAAATTTTACCTTTTGGTTCAATCTTATTGAAATGATTTCATCTTCAGC 1373  
Db 310 TTTATTTCCGGAATTTTCCATTTGGATCAATGCTGTGGAATGATTATTATTATTTCA 369  
Qy 1374 TCTTTCTGGGCATATAAGATCTATTATGCTATGCTTCAATGCTGCTGCTGCTGCTATC 1433  
Db 370 TCAATTTGGTTTAAATAAGATTTTATATGTTGGATTTTATTTTCTGTTTTCATATTA 429  
Qy 1434 CTGTGCAATGTGACTGCTGTGTGATGATTTGTGTCATATTTTCTACTAATCAATGAGAA 1493  
Db 430 ATGATTTAACTAGTAGTTTAAATTTACTATTTTAAAGATTTATATATCTTTATGTTCA 489  
Qy 1494 GATTACCGTGGCAATGGCAAGTTTCTCTGCTGCAATCAATCTCAATCTATGTTTAC 1553  
Db 490 AATTATAAATGGCAATGGAAATCAATTATTGTTGGAGAGGTTGCAATTTATGATT 549  
Qy 1554 ATGATTTCTCTTACTACTATTTTTCAAAACAAAGATGATGCTGCTATTTCAAAACATCA 1613  
Db 550 ATTCATTCATTTTGTGCTGCTGCTGA---AAATTTGGTGGATTAGTTTCATTAGTT 606

Qy 1614 TTTTACTTTGATATATGCGGATATTTAGACACACCTTTGGGATAAATGTGTGGAGCGATT 1673  
Db 607 TTATACAGTGGTTATTTCAGCTGTGATTTCAATTATTAGTTTTCCTTTGTTGGATCAATT 666  
Qy 1674 GGTTACATGGGAACAAGTGCCTTTGTCCGAAAATCTATCTATCTATGTAATAATTGACTAG 1733  
Db 667 GGATTTATTAGTAGTTTAAATATTGTGAGATTAATTTATGTCACAAATTAATAATTGATTAG 726

RESULT 14  
US-09-313-294A-2292  
; Sequence 2292, Application US/09313294A  
; Patent No. 6476212  
; GENERAL INFORMATION:  
; APPLICANT: Lalgudi, Raghunath V.  
; APPLICANT: Ito, Laura Y.  
; APPLICANT: Sherman, Bradley K.  
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR  
; FILE REFERENCE: PL-0017 US  
; CURRENT APPLICATION NUMBER: US/09/313,294A  
; CURRENT FILING DATE: 1999-05-14  
; NUMBER OF SEQ ID NOS: 7600  
; SOFTWARE: PERL Program  
; SEQ ID NO 2292  
; LENGTH: 262  
; TYPE: DNA  
; ORGANISM: Zea mays  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. 6476212 700552439HI  
US-09-313-294A-2292

Query Match 5.6%; Score 101; DB 4; Length 262;  
Best Local Similarity 68.4%; Pred. No. 7.9e-18;  
Matches 154; Conservative 0; Mismatches 70; Indels 1; Gaps 1;

Qy 1450 TCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAATACCGGTGGCAAT 1509  
Db 39 TCTGCGTCACTATTGTGGGTACTTATTTCTTGTGACGCCGAGAACTACCAATGGCAAT 98  
Qy 1510 GGACAAGTTTCTCTGCTGCATCACTCAATCTATGTTTACATGATTCCTTTTACT 1569  
Db 99 GGACGCTGTTTCTTCTGACGCTCAACCGCTCTGTAGCTGTATCTGACTCCATCTACT 158  
Qy 1570 ACTATTTTTCAAAACAAAGATGTATGCTTATTTTCAACATCATTTTACTTTGGATATA 1629  
Db 159 ACTACCATGTGAGACAAAGATGTCAGGCTTCTCCAGACAAGTTTCTATTTTCGGCTACA 218  
Qy 1630 TGGCGGTATTAGCACAGCCTTTGGGATAAATGTGTGGAGCGATTG 1674  
Db 219 CGCTGATGTTCTGC-CTGGCCTAGGCATACCTTTTGGAGCTATTG 262

RESULT 15  
US-09-385-982-530/c  
; Sequence 530, Application US/09385982  
; Patent No. 6262334  
; GENERAL INFORMATION:  
; APPLICANT: ENDEGE, WILSON O., ET AL.  
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION  
; TITLE OF INVENTION: PRODUCTS: II  
; FILE REFERENCE: CCDNA-260XX  
; CURRENT APPLICATION NUMBER: US/09/385,982  
; CURRENT FILING DATE: 1999-08-30  
; EARLIER APPLICATION NUMBER: 09/328,111  
; EARLIER FILING DATE: 1999-06-08  
; EARLIER APPLICATION NUMBER: 60/117,393  
; EARLIER FILING DATE: 1999-01-27  
; EARLIER APPLICATION NUMBER: 60/098,639  
; EARLIER FILING DATE: 1998-08-31  
; NUMBER OF SEQ ID NOS: 544  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 530

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; LENGTH: 769
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(769)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-530

Query Match      5.1%; Score 91.6; DB 3; Length 769;
Best Local Similarity 57.0%; Pred. No. 5.7e-15;
Matches 166; Conservative 0; Mismatches 125; Indels 0; Gaps 0;

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QY 1321 GTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGTAATTCATCTTCACGCTTTCT 1380
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QY 1381 GGGCATATAGATCTATTATGCTCTATGGCTTCATGATGCTGGTGTATCCTGTGCA 1440
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1441 TTGTGACTGTCTGTGACTATTGTGTCACATATTTTCTACTAAATGCAGAGATTACC 1500
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1501 GGTGCAATGGACAAGTTTCTCTGCTGTCATCAACTGCAATCTATGTTT 1551
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1551 ATTGGCAATGGCGTTCAATTCCTTAGAGTGGCTTTACTGCAGTTTATTCT 1610
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Search completed: August 13, 2005, 22:29:55  
Job time : 425.292 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 13, 2005, 20:00:12 ; Search time 1242.21 Seconds  
(without alignments)  
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Title: US-09-319-724B-2

Perfect score: 1317

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Gapop 10.0 , Gapext 1.0

Searched: 7305758 seqs, 3244068913 residues

Total number of hits satisfying chosen parameters: 14611516

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Published Applications NA:\*

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- 10: /cgn2\_6/ptodata/2/pubpna/US09B\_PUBCOMB.seq:\*
- 11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq:\*
- 12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq:\*
- 13: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq:\*
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- 17: /cgn2\_6/ptodata/2/pubpna/US10E\_PUBCOMB.seq:\*
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- 19: /cgn2\_6/ptodata/2/pubpna/US10G\_PUBCOMB.seq:\*
- 20: /cgn2\_6/ptodata/2/pubpna/US10H\_PUBCOMB.seq:\*
- 21: /cgn2\_6/ptodata/2/pubpna/US10I\_PUBCOMB.seq:\*
- 22: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq:\*
- 23: /cgn2\_6/ptodata/2/pubpna/US11A\_PUBCOMB.seq:\*
- 24: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq:\*
- 25: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*
- 26: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1317	100.0	1827	20	US-10-755-466-3
2	1317	100.0	2072	20	Sequence 3, Appli
3	1317	100.0	3076	9	US-10-755-466-1
4	1317	100.0	3076	16	Sequence 29, Appl
5	1317	100.0	3076	21	US-10-277-802-29
6	1317	100.0	3508	10	US-10-896-972-29
7	1317	100.0	4024	14	US-09-814-353-21837
					Sequence 10005, A

8	1315.4	99.9	3370	10	US-09-374-046A-25	Sequence 25, Appl
9	1315.4	99.9	3370	18	US-10-616-263-25	Sequence 25, Appl
10	1226	93.1	3389	15	US-10-205-219-122	Sequence 122, App
11	1226	93.1	3389	21	US-10-956-157-2297	Sequence 2297, Ap
12	709.6	53.9	6197	17	US-10-062-674-1697	Sequence 1697, Ap
13	590.4	44.8	1070	17	US-10-264-237-1414	Sequence 1414, Ap
14	537.4	40.8	560	17	US-10-242-535A-2630	Sequence 2630, Ap
15	537.4	40.8	560	18	US-10-085-783A-2630	Sequence 2630, Ap
16	499	37.9	1899	19	US-10-437-963-39405	Sequence 39405, A
17	492.6	37.4	1867	9	US-09-915-582-13	Sequence 13, Appl
18	492.6	37.4	1867	16	US-10-277-802-13	Sequence 13, Appl
19	492.6	37.4	1867	21	US-10-896-972-13	Sequence 13, Appl
20	491.6	37.3	2039	18	US-10-425-114-26742	Sequence 26742, A
21	491.6	37.3	2068	20	US-10-425-115-101961	Sequence 4365, Ap
22	483.6	36.7	2355	20	US-10-739-930-4365	Sequence 14430, A
23	481.8	36.6	2406	19	US-10-437-963-14430	Sequence 140808,
24	472.4	35.9	2461	20	US-10-425-115-140808	Sequence 140919,
25	461.4	35.0	2698	20	US-10-425-115-140919	Sequence 12720, A
26	454.4	34.5	2152	19	US-10-767-701-12720	Sequence 658, App
27	449.6	34.1	2316	19	US-10-437-963-658	Sequence 3956, Ap
28	416.4	31.6	419	10	US-09-918-995-3956	Sequence 1724, Ap
29	409.6	31.1	497	11	US-09-969-034-1724	Sequence 21677, A
30	406.4	30.9	1535	20	US-10-425-115-21677	Sequence 445, App
31	406.2	30.8	459	17	US-10-062-674-445	Sequence 133, App
32	365.6	27.8	455	16	US-10-002-631C-133	Sequence 134, App
33	365.6	27.8	455	16	US-10-002-631C-134	Sequence 388, App
34	284.2	21.6	731	18	US-10-333-184-388	Sequence 21679, A
35	280.4	21.3	2032	20	US-10-425-115-21679	Sequence 103451,
36	276.6	21.0	2748	18	US-10-424-599-103451	Sequence 16392, A
37	274.4	20.8	1033	18	US-10-425-114-16392	Sequence 11456, A
38	273.8	20.8	529	14	US-10-198-846-11456	Sequence 3365, Ap
39	262.6	19.9	600	19	US-10-021-323-3365	Sequence 2790, Ap
40	248.4	18.9	673	14	US-10-198-846-2790	Sequence 31527, A
41	227	17.2	2176	18	US-10-424-599-31527	Sequence 13950, A
42	224.2	17.0	2314	19	US-10-767-701-13950	Sequence 636, App
43	222.2	16.9	1346	19	US-10-767-795-636	Sequence 3633, Ap
44	221	16.8	2101	18	US-10-425-114-3633	Sequence 17630, A
45	219.4	16.7	3097	20	US-10-425-115-17630	

#### ALIGNMENTS

RESULT 1  
US-10-755-466-3  
; Sequence 3, Application US/10755466  
; Publication No. US20040265854A1  
; GENERAL INFORMATION:  
; APPLICANT: HIDAKA, Jun et al.  
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I  
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES  
; FILE REFERENCE: 0020-4827P  
; CURRENT APPLICATION NUMBER: US/10755,466  
; PRIORITY FILING DATE: 2004-01-13  
; PRIOR FILING DATE: 2001-04-30  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 3  
; LENGTH: 1827  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (11)..(1747)  
US-10-755-466-3

Query Match 100.0%; Score 1317; DB 20; Length 1827;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ATGTACATAGATGATTACCAATATGGGTTATGTTGGTGGCTGATCAATGAGAA 60  
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Db 374 ATGTACATAGATGATTACCAATATGGGTTATGTTGGTGAGGCTGATGAAATGGAGAA 433  
Qy 61 GATTACTATCTTTGGACCTATAAAAACTTGAANATAGTTTAAATGGAATCGAATTTGTT 120  
Db 434 GATTACTATCTTTGGACCTATAAAAACTTGAANATAGTTTAAATGGAATCGAATTTGTT 493  
Qy 121 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTTAAATCCAGATG 180  
Db 494 GATGTTAATCTAACTAGTGAAGGAAAGGTGAAACTGGTTCCAAATACTTAAATCCAGATG 553  
Qy 181 TCATATTCAATGTAATAAGTCAAGATGTAAGTGAATTTGAAGATCGATTTGACAAATAT 240  
Db 554 TCATATTCAATGTAATAAGTCAAGATGTAAGTGAATTTGAAGATCGATTTGACAAATAT 613  
Qy 241 CTTGATCGGCTCTTTTCAACATCGGATTCATTTGGTTTTCATTTTCAACTCCTTCATG 300  
Db 614 CTTGATCGGCTCTTTTCAACATCGGATTCATTTGGTTTTCATTTTCAACTCCTTCATG 673  
Qy 301 ATGTTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAAGAT 360  
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Qy 361 TATGCTCGGTACAGTAAAGAGGAAAGTAAATGATATGATAGACAGACCTAGGAGATGAA 420  
Db 734 TATGCTCGGTACAGTAAAGAGGAAAGTAAATGATATGATAGACAGACCTAGGAGATGAA 793  
Qy 421 TATGGATGGAACAGGTGCAATGGAGATGATTTAGACCATCAAGTCAACCCACTGATATTT 480  
Db 794 TATGGATGGAACAGGTGCAATGGAGATGATTTAGACCATCAAGTCAACCCACTGATATTT 853  
Qy 481 TCCTCTCTGATGTTGTTCTGATGTCAGATATTTGCTGTCTCTCATCGTTATTATTGTT 540  
Db 854 TCCTCTCTGATGTTGTTCTGATGTCAGATATTTGCTGTCTCTCATCGTTATTATTGTT 913  
Qy 541 GCAATGATAGAAGATTTATATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600  
Db 914 GCAATGATAGAAGATTTATATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 973  
Qy 601 TATGCTGCTAGGTTCTCAGTGAATGGTTATTTGGAGGAAGTCTGTATGCTAGACAAGGA 660  
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Qy 661 GGAAGAGATGGATAAAGCAGATGTTTATTTGGGCACTTCTTATCCAGCTATGGTGTTG 720  
Db 1034 GGAAGAGATGGATAAAGCAGATGTTTATTTGGGCACTTCTTATCCAGCTATGGTGTTG 1093  
Qy 721 GGCACTGCTCTTCTCATCAATTTCAATAGCCATTTATACATGCTTCAAGAGCCATTCCT 780  
Db 1094 GGCACTGCTCTTCTCATCAATTTCAATAGCCATTTATACATGCTTCAAGAGCCATTCCT 1153  
Qy 781 TTTGGACAATGGTGGCGGTTTGTGCACTGTGTTTGTATTTCTTCTCTTAAATCTTT 840  
Db 1154 TTTGGACAATGGTGGCGGTTTGTGCACTGTGTTTGTATTTCTTCTCTTAAATCTTT 1213  
Qy 841 GTTGGTACAATCTTGGCGCAATCTGTAGGTCAGGCCCACTTCTCTGTGCTGTGTCAT 900  
Db 1214 GTTGGTACAATCTTGGCGCAATCTGTAGGTCAGGCCCACTTCTCTGTGCTGTGTCAT 1273  
Qy 901 GCTGTGCTCGTCTTATACCGGAGAAAAATGTTTCATAGAGCTGCGGTTATTTGTTGC 960  
Db 1274 GCTGTGCTCGTCTTATACCGGAGAAAAATGTTTCATAGAGCTGCGGTTATTTGTTGC 1333  
Qy 961 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTTATTTGAAATGATTTTCACTTCACGTCT 1020  
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Db 1514 TACGGTGGCAATGGCAAGTTTTCTCTCTGCTGCATCAACTCAATCTATGTTTACATG 1573  
Qy 1201 TATTCCCTTTTACTACTATTATTTTCAAAAACAAGATGATGGCTTATTTCAAAACATCATTT 1260  
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Qy 1261 TACTTTGGATATATGCGGTTATTTAGCACAGCTTGGGGATAATGTTGGAGGATTT 1317  
Db 1634 TACTTTGGATATATGCGGTTATTTAGCACAGCTTGGGGATAATGTTGGAGGATTT 1690

## RESULT 2

US-10-755-466-1

; Sequence 1, Application US/10755466

; Publication No. US20040265854A1

; GENERAL INFORMATION:

; APPLICANT: HIDAKA, Jun et al.

; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L

; FILE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES

; FILE REFERENCE: 0020-4827P

; CURRENT APPLICATION NUMBER: US/10/755,466

; CURRENT FILING DATE: 2004-01-13

; PRIOR APPLICATION NUMBER: US/09/786,681

; PRIOR FILING DATE: 2001-04-30

; NUMBER OF SEQ ID NOS: 7

; SOFTWARE: Patent in version 3.0

; SEQ ID NO 1

; LENGTH: 2072

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (49)..(1794)

US-10-755-466-1

Query Match: 100.0%; Score 1317; DB 20; Length 2072;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGTACATAGATGATTTACCAATATCGGGTATTTGTTGGTGAGCTGATGAAAAATGGAGAA 60  
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Db 481 GATTACTATCTTTGGACCTATAAAAACTTGAANATAGTTTAAATGGAATCGAATTTGTT 540  
Qy 121 GATGTTAATCTAATAGTGAAGGAAAGGTGAAACTGGTTCCAAATCTAAATCCAGATG 180  
Db 541 GATGTTAATCTAATAGTGAAGGAAAGGTGAAACTGGTTCCAAATCTAAATCCAGATG 600  
Qy 181 TCATATTTCAGTAAAAATGGAAAAAGTCAAGATGTAATTTTGAAGATCGAATTTGCAAAATAT 240  
Db 601 TCATATTTCAGTAAAAATGGAAAAAGTCAAGATGTAATTTTGAAGATCGAATTTGCAAAATAT 660  
Qy 241 CTTGATCGGCTCTTTTTCACATCGGATTCATTTGGTTTTCATTTTCAACTCCTTCATG 300  
Db 661 CTTGATCGGCTCTTTTTCACATCGGATTCATTTGGTTTTCATTTTCAACTCCTTCATG 720  
Qy 301 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAAGAT 360  
Db 721 ATGGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAAGAT 780  
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Qy 421 TATGGATGGAACAGGTGCAATGGAGATGATTTAGACCATCAAGTCAACCCACTGATATTT 480  
Db 841 TATGGATGGAACAGGTGCAATGGAGATGATTTAGACCATCAAGTCAACCCACTGATATTT 900



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Db 1261 GTTGGTACAATGCTGGCGGAAATCTGTCAGTCAAGCCCAATCTTCTGTGCTGTCAT 1320  
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Db 1321 GCTGTGCTGCTCTTATACCGGAGAAAAATGGTTTATGAGAGCCCTGCGGTTATTGTTGC 1380  
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Db 1381 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTTGAAATGTAATTTTCTTACGTC 1440  
Qy 1021 TTCTGGGCATATAGATCTTATGCTATGCTTATGCTTATGCTGCTGCTGCTGCTGCTG 1080  
Db 1441 TTCTGGGCATATAGATCTTATGCTTATGCTTATGCTTATGCTGCTGCTGCTGCTGCTG 1500  
Qy 1081 TGCATTGTGACTGTCTGTGACTATTTGTGTCACATATTTTCTACTAAATGCAAGAT 1140  
Db 1501 TGCATTGTGACTGTCTGTGACTATTTGTGTCACATATTTTCTACTAAATGCAAGAT 1560  
Qy 1141 TACCGGTGGCAATGACAGTTTCTCTGCTGATCAATGCAATCTATGTTTACATG 1200  
Db 1561 TACCGGTGGCAATGACAGTTTCTCTGCTGATCAATGCAATCTATGTTTACATG 1620  
Qy 1201 TATTCCTTTTACTACTATTTTCAAAACAAGATGATGGCTTATTTCAAAACATCATTT 1260  
Db 1621 TATTCCTTTTACTACTATTTTCAAAACAAGATGATGGCTTATTTCAAAACATCATTT 1680  
Qy 1261 TACTTTGGATATGCGCGTATTTAGCACAGCCTTTGGGGATAATGTTGGAGCGATT 1317  
Db 1681 TACTTTGGATATGCGCGTATTTAGCACAGCCTTTGGGGATAATGTTGGAGCGATT 1737

RESULT 3

US-09-915-582-29  
; Sequence 29, Application US/09915582  
; Patent No. US20020120103A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 17 Human Secreted Proteins  
; FILE REFERENCE: PS723P1  
; CURRENT APPLICATION NUMBER: US/09/915,582  
; CURRENT FILING DATE: 2001-07-27  
; PRIOR APPLICATION NUMBER: PCT/US01/01431  
; PRIOR FILING DATE: 2001-01-17  
; PRIOR APPLICATION NUMBER: 60/179,065  
; PRIOR FILING DATE: 2000-01-31  
; PRIOR APPLICATION NUMBER: 60/180,628

; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/231,968  
; PRIOR FILING DATE: 2000-09-12  
; NUMBER OF SEQ ID NOS: 97  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 29  
; LENGTH: 3076  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (3064)  
; OTHER INFORMATION: n equals a,t,g, or c  
US-09-915-582-29

Query Match 100.0%; Score 1317; DB 9; Length 3076;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 ATGTACATAGATGATTACCAATATGGGTATTGTTGGTGGAGGCTGATGAAAAATGGAGAA 60  
Db 352 ATGTACATAGATGATTACCAATATGGGTATTGTTGGTGGAGGCTGATGAAAAATGGAGAA 411  
Qy 61 GATTACTATCTTTGGACCTATAAAAAATTGAAATAGTCTTAAATGGAATCGAATTCGT 120  
Db 412 GATTACTATCTTTGGACCTATAAAAAATTGAAATAGTCTTAAATGGAATCGAATTCGT 471  
Qy 121 GATGTTAATCTAATCTAGTGAAGGAAAGTGAATCTGTTCCAAATACCTAAAAATCCAGATG 180  
Db 472 GATGTTAATCTAATCTAGTGAAGGAAAGTGAATCTGTTCCAAATACCTAAAAATCCAGATG 531  
Qy 181 TCATATTCAGTAAATGGAATAAGTCAAGTGTGAAATTTGAAAGATCGAATTTGACAAATAT 240  
Db 532 TCATATTCAGTAAATGGAATAAGTCAAGTGTGAAATTTGAAAGATCGAATTTGACAAATAT 591  
Qy 241 CTGATCCGTCCTTTTTCACATCGAATTCATTTGGTTTTCATTTTCAATCTTCAATCTTCTCATG 300  
Db 592 CTGATCCGTCCTTTTTCACATCGAATTCATTTGGTTTTCATTTTCAATCTTCAATCTTCTCATG 651  
Qy 301 ATGGTGATCTTTTGGTGGGCTTATGTTTCAATGATTTTAAATGAGAAATTAAGAAAAAGAT 360  
Db 652 ATGGTGATCTTTTGGTGGGCTTATGTTTCAATGATTTTAAATGAGAAATTAAGAAAAAGAT 711  
Qy 361 TATGCTCGGTACAGTAAAGAGAGAAATGATGATGATGATGATGATGATGATGATGATGATGAT 420  
Db 712 TATGCTCGGTACAGTAAAGAGAGAAATGATGATGATGATGATGATGATGATGATGATGATGAT 771  
Qy 421 TATGGATGGAACACAGGTGCTGAGATGATTTAGACCATCAAGTCCACCCTGATATTT 480  
Db 772 TATGGATGGAACACAGGTGCTGAGATGATTTAGACCATCAAGTCCACCCTGATATTT 831  
Qy 481 TCCTCTCTGATTGGTCTTGGATGTCAGATATTTGCTGTGCTCTCATCGTTATTATTGTT 540  
Db 832 TCCTCTCTGATTGGTCTTGGATGTCAGATATTTGCTGTGCTCTCATCGTTATTATTGTT 891  
Qy 541 GCAATGATAGAGATTATATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTGTC 600  
Db 892 GCAATGATAGAGATTATATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTGTC 951  
Qy 601 TATGCTGCTACGCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660  
Db 952 TATGCTGCTACGCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1011  
Qy 661 GGAAGGAGATGGATTAAGACAGATGTTTATTTGGGGCATTCCTTATCCAGCTATGCTGTGT 720  
Db 1012 GGAAGGAGATGGATTAAGACAGATGTTTATTTGGGGCATTCCTTATCCAGCTATGCTGTGT 1071  
Qy 721 GGCACCTGCTTCTTTCATCAATTTTATAGCCATTTTATTAACCATGCTTCAAGAGCCATTCCT 780  
Db 1072 GGCACCTGCTTCTTTCATCAATTTTATAGCCATTTTATTAACCATGCTTCAAGAGCCATTCCT 1131  
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Db 1132 TTTGGAAACAATGGTGGCGGTTTGTGCACTGTGTTTTTGTGTTATCTTCTCTCAAAATCTT 1191  
Qy 841 GTTGGTACAATACCTTGGCCGAAATCTGTCAAGGTCAAGCCCAACATTTCTTGTGCGTCAAT 900  
Db 1192 GTTGGTACAATACCTTGGCCGAAATCTGTCAAGGTCAAGCCCAACATTTCTTGTGCGTCAAT 1251  
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Db 1252 GCTGTGCTCGTCTCTATACCGGAGAAAATGGTTTCAATGAGCCCTGCGGTTATTGTTTGC 1311  
Qy 961 CTGGGTGGAATTTTACCTTTTGGTTTCAATCTTTTATGAAATGTATTTTCACTTCAAGTCT 1020  
Db 1312 CTGGGTGGAATTTTACCTTTTGGTTTCAATCTTTTATGAAATGTATTTTCACTTCAAGTCT 1371  
Qy 1021 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTTCAATGATGCTGGTGTATCCTG 1080  
Db 1372 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTTCAATGATGCTGGTGTATCCTG 1431  
Qy 1081 TGCATTTGTGACTGTCTGTGACTATTGTGTGACATATTTTCTACTAAATGCAAGAGAT 1140  
Db 1432 TGCATTTGTGACTGTCTGTGACTATTGTGTGACATATTTTCTACTAAATGCAAGAGAT 1491  
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Db 1492 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1551  
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Db 1552 TATTCTTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTTCAAAACATCAATT 1611  
Qy 1261 TACTTTGGATATATGGCGGTATTTAGCACACCTTGGGGATATGCTGGAGCGATT 1317  
Db 1612 TACTTTGGATATATGGCGGTATTTAGCACACCTTGGGGATATGCTGGAGCGATT 1668

RESULT 4  
US-10-277-802-29  
; Sequence 29, Application US/10277802  
; Publication No. US2003019070A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 17 Human Secreted Proteins  
; FILE REFERENCE: PS/23p1  
; CURRENT APPLICATION NUMBER: US/10/277,802  
; CURRENT FILING DATE: 2002-10-23  
; PRIOR APPLICATION NUMBER: 09/915,582  
; PRIOR FILING DATE: 2001-07-27  
; PRIOR APPLICATION NUMBER: PCT/US01/01431  
; PRIOR FILING DATE: 2001-01-17  
; PRIOR APPLICATION NUMBER: 60/179,065  
; PRIOR FILING DATE: 2000-01-31  
; PRIOR APPLICATION NUMBER: 60/180,628  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/231,968  
; PRIOR FILING DATE: 2000-09-12  
; NUMBER OF SEQ ID NOS: 97  
; SOFTWARE: PatentIn ver. 2.0  
; SEQ ID NO 29  
; LENGTH: 3076  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (3064)  
; OTHER INFORMATION: n equals a,t,g, or c  
US-10-277-802-29

Query Match 100.0%; Score 1317; DB 16; Length 3076;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 ATGTACATAGATGATTTTACCAATATGGGTATTTGTTGGTGGCTGATGAAATGGAGAA 60  
|||||

Db 352 ATGTACATAGATGATTTTACCAATATGGGTATTTGTTGGTGGCTGATGAAATGGAGAA 411  
Qy 61 GATTACTATCTTTGGACCTATAAAAACTTTGAAATAGTTTTTAATGAAATCGAATTTGTT 120  
Db 412 GATTACTATCTTTGGACCTATAAAAACTTTGAAATAGTTTTTAATGAAATCGAATTTGTT 471  
Qy 121 GATTGTTAATCTTAATAGTGAAGGAAAGGTGAACTGGTTCCTCAATACCTAAATCCACATG 180  
Db 472 GATTGTTAATCTTAATAGTGAAGGAAAGGTGAACTGGTTCCTCAATACCTAAATCCACATG 531  
Qy 181 TCATATTTTCAGTAAATTCGAAAAAGTCAGATGTCGAAATTTGAAAGATCGATTTGACAAATAT 240  
Db 532 TCATATTTTCAGTAAATTCGAAAAAGTCAGATGTCGAAATTTGAAAGATCGATTTGACAAATAT 591  
Qy 241 CTTGATCCGTCCTTTTTCACATTCGGAATTCATTTGGTTTTTCAATTTTCAATCTCCTTCATG 300  
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Qy 301 ATGCTGATCTTCTTTGGTGGGCTTAGTTTCAATCATTTTAATGAGAACATTAAGAAAAAGAT 360  
Db 652 ATGCTGATCTTCTTTGGTGGGCTTAGTTTCAATCATTTTAATGAGAACATTAAGAAAAAGAT 711  
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Qy 421 TATGAGATGGAACAAGGTGCATGGAGATGTATTTTAGACCATCAAGTGCACCCACTGATATTT 480  
Db 772 TATGAGATGGAACAAGGTGCATGGAGATGTATTTTAGACCATCAAGTGCACCCACTGATATTT 831  
Qy 481 TCCTCTCTGATCTGGTCTGGAATCTCAGATATTTTCTGTGTCCTCTCATCGTTATTTATGTT 540  
Db 832 TCCTCTCTGATCTGGTCTGGAATCTCAGATATTTTCTGTGTCCTCTCATCGTTATTTATGTT 891  
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Qy 601 TATGCTGTACGTCCTCAGTGAATGGTTATTTTGGAGGAAAGTCTGTATGTAGACAAGGA 660  
Db 952 TATGCTGTACGTCCTCAGTGAATGGTTATTTTGGAGGAAAGTCTGTATGTAGACAAGGA 1011  
Qy 661 GGAAGGAGATGGATAAAGCAGATGTTTATTTGGGGCATTCCTTATCCAGCTATGGTGTGT 720  
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Qy 721 GGCACTGCTCTTCTTCATCAATTTTATAGCCATTTATTTACCATGCTTCAAGAGCCATTCTT 780  
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Qy 781 TTTGGAAACAATGGTGGCGGTTTGTGCACTGTTTTTTTGTATTTCTTCTCTAAATCTTT 840  
Db 1132 TTTGGAAACAATGGTGGCGGTTTGTGCACTGTTTTTTTGTATTTCTTCTCTAAATCTTT 1191  
Qy 841 GTTGGTACATACTTGCAGCAATCTGTGAGGTGAGCCCACTTCTTGTGCGTGCAAT 900  
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Qy 901 GCTGTGCTCGTCTCTATACCGGAGAAAATGGTTTCAATGAGCCCTGCGGTTATTGTTTGC 960  
Db 1252 GCTGTGCTCGTCTCTATACCGGAGAAAATGGTTTCAATGAGCCCTGCGGTTATTGTTTGC 1311  
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Db 1432 TGCATTTGTGACTGTCTGTGACTATTGTGTGACATATTTTCTACTAAATGCAAGAGAT 1491

Qy 1141 TACCGTGGCAATGCAAGTTTTCTCTCTGCTGATCAACTGCAATCTATGTTTACATG 1200  
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Db 1552 TATTCCTTTTACTACTATTTTTTCAAAACAAGATGATGCTTTATTTCAAAACATCAATT 1611  
Qy 1261 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAAATGTGTGGAGCGAAT 1317  
Db 1612 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAAATGTGTGGAGCGAAT 1668

RESULT 5

US-10-896-972-29  
; Sequence 29, Application US/10896972  
; Publication No. US20050032168A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 17 Human Secreted Proteins  
; FILE REFERENCE: PS723P1  
; CURRENT APPLICATION NUMBER: US/10/896,972  
; CURRENT FILING DATE: 2004-07-23  
; PRIOR APPLICATION NUMBER: US/09/915,582  
; PRIOR FILING DATE: 2001-07-27  
; PRIOR APPLICATION NUMBER: PCT/US01/01431  
; PRIOR FILING DATE: 2001-01-17  
; PRIOR APPLICATION NUMBER: 60/179,065  
; PRIOR FILING DATE: 2000-01-31  
; PRIOR APPLICATION NUMBER: 60/180,628  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/231,968  
; PRIOR FILING DATE: 2000-09-12  
; NUMBER OF SEQ ID NOS: 97  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 29  
; LENGTH: 3076  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (3064)  
; OTHER INFORMATION: n equals a,t,g, or c  
US-10-896-972-29

Query Match 100.0%; Score 1317; DB 21; Length 3076;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 ATGTACATAGATGATTACCAATATGGGGTATTTGTTGAGGCTGATGAAAAATGGAGAA 60  
Db 352 ATGTACATAGATGATTACCAATATGGGGTATTTGTTGAGGCTGATGAAAAATGGAGAA 411  
Qy 61 GATTACTACTTTGGACCTTATAAATACTTGAATAAGTTTAAATGGAATCGAATTGTT 120  
Db 412 GATTACTACTTTGGACCTTATAAATACTTGAATAAGTTTAAATGGAATCGAATTGTT 471  
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Db 472 GATGTTAATCTAACTAGTGAAGGAAGGTGAACTGGTTTCCAAATPACTAAATCCAGATG 531  
Qy 181 TCATATTCAGTAAATGGAATAAGTCAGATGGAATTTGAAGATCGAATTGACAAATAT 240  
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Qy 241 CTTGATCCGTCCTTTTCAACATCGGATTCATTTGTTTCAATTTCAACTCCTTCATG 300  
Db 592 CTTGATCCGTCCTTTTCAACATCGGATTCATTTGTTTCAATTTCAACTCCTTCATG 651  
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Db 652 ATGGTGATCTCTTGGTGGGCTTAGTTTCAATGATTTTAAATCAGAAACATTAAGAAAGAT 711

Qy 361 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGATAGAGACCTTAGGAGATGAA 420  
Db 712 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGATAGAGACCTTAGGAGATGAA 771  
Qy 421 TATGGATGGAACACAGGTGCAATGAGATGATTTAGACCATCAAGTCACCCACATGATTTT 480  
Db 772 TATGGATGGAACACAGGTGCAATGAGATGATTTAGACCATCAAGTCACCCACATGATTTT 831  
Qy 481 TCCTCTCTGATGTTGTTCTGCTGATGTCAGATATTTGCTGCTCTCTCATCGTTATTTGTT 540  
Db 832 TCCTCTCTGATGTTGTTCTGCTGATGTCAGATATTTGCTGCTCTCTCATCGTTATTTGTT 891  
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Db 952 TATGCTCTAGGTCTCAGTGAATGTTATTTGGAGGAAGTCTGTATGCTAGACCAAGGA 1011  
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Db 1012 GGAAGGAGATGGATAAAGCAGATGTTTATTTGGGGCATTCTCTATCCAGCTATGTTGTT 1071  
Qy 721 GGCACTGCTCTTCTTCAATTTTATAGCCATTTATTAACCATGCTTCAAGAGCCATTCCT 780  
Db 1072 GGCACTGCTCTTCTTCAATTTTATAGCCATTTATTAACCATGCTTCAAGAGCCATTCCT 1131  
Qy 781 TTTGGAAACAATGTTGGCGGTTTGTGATCTGTTTTTGTATTTCTCTCTAAATCTT 840  
Db 1132 TTTGGAAACAATGTTGGCGGTTTGTGATCTGTTTTTGTATTTCTCTCTAAATCTT 1191  
Qy 841 GTTGGTACAATACCTTGGCGGAATCTGTCAAGTCAAGCCCAACTTTCTTGTGCTGTCAT 900  
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Qy 901 GCTGTGCTCTGCTCTATACCGAGAAAAATGTTTCATGAGCCCTGCGGTTATTTGTTGTC 960  
Db 1252 GCTGTGCTCTGCTCTATACCGAGAAAAATGTTTCATGAGCCCTGCGGTTATTTGTTGTC 1311  
Qy 961 CTGGTGGAAATTTTACCTTTTGGTTTCAATCTTTATGAAATGATTTTCACTTCACTGCT 1020  
Db 1312 CTGGTGGAAATTTTACCTTTTGGTTTCAATCTTTATGAAATGATTTTCACTTCACTGCT 1371  
Qy 1021 TTCTGGGCATATAGATCTATATGCTATGCTGCTTCAATGCTGCTGCTGCTGCTGCTGCTG 1080  
Db 1372 TTCTGGGCATATAGATCTATATGCTATGCTGCTTCAATGCTGCTGCTGCTGCTGCTGCTG 1431  
Qy 1081 TGCATTTGTCATGCTGCTGCTGCTATTTGTCGACATATTTTCTACTAAATGCAGAGAT 1140  
Db 1432 TGCATTTGTCATGCTGCTGCTGCTATTTGTCGACATATTTTCTACTAAATGCAGAGAT 1491  
Qy 1141 TACCGTGGCAATGGAACAAAGTTTCTCTCTGCTGCACTCAATGCTATGTTTACATG 1200  
Db 1492 TACCGTGGCAATGGAACAAAGTTTCTCTCTGCTGCACTCAATGCTATGTTTACATG 1551  
Qy 1201 TATTCCTTTTACTACTATTTTTTCAAAACAAGATGATGCTTATTTCAAAACATCAATT 1260  
Db 1552 TATTCCTTTTACTACTATTTTTTCAAAACAAGATGATGCTTATTTCAAAACATCAATT 1611  
Qy 1261 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAAATGTGTGGAGCGAAT 1317  
Db 1612 TACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAAATGTGTGGAGCGAAT 1668

RESULT 6

US-09-814-353-21837  
; Sequence 21837, Application US/09814353  
; Publication No. US20030165831A1  
; GENERAL INFORMATION:  
; APPLICANT: Lee, John  
; APPLICANT: Thompson, Pamela



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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1, 2, 4021, 4022, 4023, 4024
; OTHER INFORMATION: n = A,T,C or G
US-10-198-846-10005

Query Match      100.0%; Score 1317; DB 14; Length 4024;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTACATAGATGATTTACCAATATGGGATATGTTGGTGGAGGCTGATGAAATGGAGAA 60
DB 410 ATGTACATAGATGATTTACCAATATGGGATATGTTGGTGGAGGCTGATGAAATGGAGAA 469
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DB 470 GATTACTATCTTTGGACCTATAAAAACTTGAATAGGTTTATGGGAATCGAATGTT 529
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DB 530 GATGTTAATCTAACTAGTGAAGAAAGTGAACCTGGTTTCCAAATCTATAAATCCAGATG 589
QY 181 TCATATTCAGTAAATATGGAATAGTTCAGATGTGAATTTGAAGATCGAATTTGACAAATAT 240
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QY 361 TATGCTCGGTACAGTAAAGAGAGAAATGGATGATATGGATAGAGACTAGGAGATGAA 420
DB 770 TATGCTCGGTACAGTAAAGAGAGAAATGGATGATATGGATAGAGACTAGGAGATGAA 829
QY 421 TATGATGGAACACAGTGCATGAGATGATTTAGACCATCAAGTCAACCTGATATTT 480
DB 830 TATGATGGAACACAGTGCATGAGATGATTTAGACCATCAAGTCAACCTGATATTT 889
QY 481 TCCTCTCTGATTTGTTCTGGATGTCAGATATTTTGTGTCCTCATCGTTATTTGTT 540
DB 890 TCCTCTCTGATTTGTTCTGGATGTCAGATATTTTGTGTCCTCATCGTTATTTGTT 949
QY 541 GCAATGATAGAGATTTATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600
DB 950 GCAATGATAGAGATTTATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 1009
QY 601 TATGCTGCTACGTCCTCAGTGAATGTTATTTTGGAGGAAGTCTGTATGCTAGACAGA 660
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QY 721 GGCACCTGCTTCTTCATCAATTTCTATAGCCATTTATFACCATGCTTCAAGAGCCATTCCT 780
DB 1130 GGCACCTGCTTCTTCATCAATTTCTATAGCCATTTATFACCATGCTTCAAGAGCCATTCCT 1189
QY 781 TTTGGAAACAATGGTGCCGTTTGTTCATCTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGT 840
DB 1190 TTTGGAAACAATGGTGCCGTTTGTTCATCTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGT 1249
QY 841 GTTGGTACATATCTTGGCCGAATCTGTGAGTCAAGCCCACTTCTCTGCTGCTGCAAT 900
DB 1250 GTTGGTACATATCTTGGCCGAATCTGTGAGTCAAGCCCACTTCTCTGCTGCTGCAAT 1309
QY 901 GCTGTGCTCTGCTCTATACGGAGAAAAATGGTTTCATGAGGCTCGGTTATTTGTTGTC 960
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DB 1310 GCTGTGCTCTGCTCTATACCGGAGAAAAATGGTTTCATGAGGCTCGGTTATTTGTTGC 1369
QY 961 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTCGAAATGTTATTTCACTTCACGCTCT 1020
DB 1370 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTCGAAATGTTATTTCACTTCACGCTCT 1429
QY 1021 TTTCTGGGCATATAAGATCTATATGCTCTATGGCTTTCAATGCTGCTGCTGCTGCTGCTGCTG 1080
DB 1430 TTTCTGGGCATATAAGATCTATATGCTCTATGGCTTTCAATGCTGCTGCTGCTGCTGCTGCTG 1489
QY 1081 TGCATTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 1140
DB 1490 TGCATTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 1549
QY 1141 TACCGGTGGCAATGGCAAGTTTTCTCTGCTGTCATCAATGCAATCTATGTTTACATG 1200
DB 1550 TACCGGTGGCAATGGCAAGTTTTCTCTGCTGTCATCAATGCAATCTATGTTTACATG 1609
QY 1201 TATTCCTTTTACTACTATTTTTCAAAAACAAGATGATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 1260
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QY 1261 TACTTTGATATATGGCGGTTATTTAGCACAGCCTTTGGGATAAATGTTGGAGCGGATT 1317
DB 1670 TACTTTGATATATGGCGGTTATTTAGCACAGCCTTTGGGATAAATGTTGGAGCGGATT 1726

RESULT 8
US-09-374-046A-25
; Sequence 25, Application US/09374046A
; Publication No. US20030096951A1
; GENERAL INFORMATION:
; APPLICANT: McCoy, John M.
; APPLICANT: Jacobs, Kenneth
; APPLICANT: LaValle, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steinger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fecthel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: GI 6075-83A
; CURRENT APPLICATION NUMBER: US/09/374,046A
; CURRENT FILING DATE: 1999-08-13
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 25
; LENGTH: 3370
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-374-046A-25

Query Match      99.9%; Score 1315.4; DB 10; Length 3370;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1316; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGTACATAGATGATTTACCAATATGGGATATGTTGGTGGAGGCTGATGAAATGGAGAA 60
DB 353 ATGTACATAGATGATTTACCAATATGGGATATGTTGGTGGAGGCTGATGAAATGGAGAA 412
QY 61 GATTACTATCTTTGGACCTATAAAAACTTGAATAGGTTTATGGGAATCGAATGTT 120
DB 413 GATTACTATCTTTGGACCTATAAAAACTTGAATAGGTTTATGGGAATCGAATGTT 472
QY 121 GATGTTAATCTAACTAGTGAAGAAAGTGAACCTGGTTTCCAAATCTATAAATCCAGATG 180
DB 473 GATGTTAATCTAACTAGTGAAGAAAGTGAACCTGGTTTCCAAATCTATAAATCCAGATG 532
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Qy 181 TCATATTCAGTAAATGGAAGAGTCAGATCTGAAATTTGAAGATCGATTTGACAAATAT 240
Db 533 TCATATTCAGTAAATGGAAGAGTCAGATCTGAAATTTGAAGATCGATTTGACAAATAT 592

Qy 241 CTTGATCGCTCTCTTTTCAACATCGGATTCATTTGGTTTCAATTTTCAACTCTCTTCATG 300
Db 593 CTTGATCGCTCTCTTTTCAACATCGGATTCATTTGGTTTCAATTTTCAACTCTCTTCATG 652

Qy 301 ATGGTGATCTTCTGGTGGCTTAGTTTCAATGATTTTAAATGAGAAATTAAGAAAAGAT 360
Db 653 ATGGTGATCTTCTGGTGGCTTAGTTTCAATGATTTTAAATGAGAAATTAAGAAAAGAT 712

Qy 361 TATGCTCGGTACACTAAGAGGAGAAATGATGATATGGATAGAGACCTTAGGAGATGAA 420
Db 713 TATGCTCGGTACACTAAGAGGAGAAATGATGATATGGATAGAGACCTTAGGAGATGAA 772

Qy 421 TATGGATGGAACAGGTGTCATGGAGATGATTTTAGACCATCAAGTCAACCTCATATTTT 480
Db 773 TATGGATGGAACAGGTGTCATGGAGATGATTTTAGACCATCAAGTCAACCTCATATTTT 832

Qy 481 TCCTCTCTGATGGTTCTGGATGTCAGATATTTGCTGTGCTCTCATCGTTATTTATGTT 540
Db 833 TCCTCTCTGATGGTTCTGGATGTCAGATATTTGCTGTGCTCTCATCGTTATTTATGTT 892

Qy 541 GCAATGATAGAAGATTTATATACAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600
Db 893 GCAATGATAGAAGATTTATATACAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 952

Qy 601 TATGCTGTCAGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660
Db 953 TATGCTGTCAGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1012

Qy 661 GGAAGGATGGATAAAGCAGATGTTTATGGGGCATTCCTTATCCAGCTATGGTGTGT 720
Db 1013 GGAAGGATGGATAAAGCAGATGTTTATGGGGCATTCCTTATCCAGCTATGGTGTGT 1072

Qy 721 GGCACTGCTTCTTCATCAATTTTATAGCCATTTTATACCAATGCTTCAAGAGCCATTCCT 780
Db 1073 GGCACTGCTTCTTCATCAATTTTATAGCCATTTTATACCAATGCTTCAAGAGCCATTCCT 1132

Qy 781 TTTGGAACAAATGGTGGCGGTTTGTGTCATCTGTTTTTTTGTATTTCTCTCTAAATCTT 840
Db 1133 TTTGGAACAAATGGTGGCGGTTTGTGTCATCTGTTTTTTTGTATTTCTCTCTAAATCTT 1192

Qy 841 GTTGGTACAATCTGGCCGAAATCTGTGAGGTGAGCCCAACTTTCCTTGTGFGTCAAT 900
Db 1193 GTTGGTACAATCTGGCCGAAATCTGTGAGGTGAGCCCAACTTTCCTTGTGFGTCAAT 1252

Qy 901 GCTGTGCTGCTGCTTACCGGAGAAAATGGTTTCATGGAGCCTGCGGTTATTTGTTGC 960
Db 1253 GCTGTGCTGCTGCTTACCGGAGAAAATGGTTTCATGGAGCCTGCGGTTATTTGTTGC 1312

Qy 961 CTGGGTGGAATTTTACCTTTTGGTTCAAATCTTTTATGAAATGATTTTCACTTCACTGCT 1020
Db 1313 CTGGGTGGAATTTTACCTTTTGGTTCAAATCTTTTATGAAATGATTTTCACTTCACTGCT 1372

Qy 1021 TTCTGGGCATATAAGATCTATATGCTATGGCTTTCATGATGCTGGTGTATCCTG 1080
Db 1373 TTCTGGGCATATAAGATCTATATGCTATGGCTTTCATGATGCTGGTGTATCCTG 1432

Qy 1081 TGCATTTGACTGCTGCTGTGACTATTTGTGTGCACATATTTTCTPACTAAATGCAAGAGAT 1140
Db 1433 TGCATTTGACTGCTGCTGTGACTATTTGTGTGTGCACATATTTTCTPACTAAATGCAAGAGAT 1492

Qy 1141 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1200
Db 1493 TACCGGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1552

Qy 1201 TATTCCTTTTACTACTATTTTTCAAAAAAGAGTATGATGGCTTATTTTCAAAACATCATTT 1260
Db 1553 TATTCCTTTTACTACTATTTTTCAAAAAAGAGTATGATGGCTTATTTTCAAAACATCATTT 1612
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Qy 1261 TACTTTGGATATATGGCGGTATTTTAGCACACGCTTTGGGATATATGTGTGAGCGGATT 1317
Db 1613 TACTTTGGATATATGGCGGTATTTTAGCACACGCTTTGGGATATATGTGTGAGCGGATT 1669

RESULT 9
US-10-616-263-25
; Sequence 25, Application US/10616263
; Publication No. US20040038276A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: LaVallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steininger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fechtel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: 00766 000103.5
; CURRENT APPLICATION NUMBER: US/10/616,263
; CURRENT FILING DATE: 2003-07-08
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 25
; LENGTH: 3370
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-616-263-25

Query Match 99.9%; Score 1315,4; DB 18; Length 3370;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1316; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ATGTACATAGATGATTACCAATATATGGGGTATTTGTTGGTGAGGCTGATGAAAAATGGAGAA 60
Db 353 ATGTACATAGATGATTACCAATATATGGGGTATTTGTTGGTGAGGCTGATGAAAAATGGAGAA 412

Qy 61 GATTACTATCTTTGGACCTATAAAAACCTTGAATAGGTTTTTAATGGAATTCGAATTTGTT 120
Db 413 GATTACTATCTTTGGACCTATAAAAACCTTGAATAGGTTTTTAATGGAATTCGAATTTGTT 472

Qy 121 GATGTTAATCTAACTAGTGAAGGAAAGGTCAAACTGTTCCAAATACTAAAAATCCAGATG 180
Db 473 GATGTTAATCTAACTAGTGAAGGAAAGGTCAAACTGTTCCAAATACTAAAAATCCAGATG 532

Qy 181 TCATATTCAGTAAAAATGGAAAAAGTCAGATGTGAAATTTTGAAGATCGATTTGACAAATAT 240
Db 533 TCATATTCAGTAAAAATGGAAAAAGTCAGATGTGAAATTTTGAAGATCGATTTGACAAATAT 592

Qy 241 CTTGATCGCTCTCTTTTCAACATCGGATTCATTTGGTTTCAATTTTCAACTCTCTTCATG 300
Db 593 CTTGATCGCTCTCTTTTCAACATCGGATTCATTTGGTTTCAATTTTCAACTCTCTTCATG 652

Qy 301 ATGGTGATCTTCTGGTGGCTTAGTTTCAATGATTTTAAATGAGAAATTAAGAAAAGAT 360
Db 653 ATGGTGATCTTCTGGTGGCTTAGTTTCAATGATTTTAAATGAGAAATTAAGAAAAGAT 712

Qy 361 TATGCTCGGTACAGTAAAGAGGAGAAATGATGATATGGATAGAGACCTTAGGAGATGAA 420
Db 713 TATGCTCGGTACAGTAAAGAGGAGAAATGATGATATGGATAGAGACCTTAGGAGATGAA 772

Qy 421 TATGGATGGAACAGGTGTCATGGAGATGATTTTAGACCATCAAGTCAACCTCATATTTT 480
Db 773 TATGGATGGAACAGGTGTCATGGAGATGATTTTAGACCATCAAGTCAACCTCATATTTT 832

Qy 481 TCCTCTCTGATTTGGTTCTGGATGTCAGATATTTGCTGTGCTCTCATCGTTATTTATGTT 540
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833 Db TCCTCTCTGATGGTTCGGATGTCAGATATTTGCTGTGCTCATCGTTATTTATGTT 892  
541 Qy GCAATGATAGAGATTTATATACCTAGAGAGGATCAATGCTCAGTACAGCCATATTTGTC 600  
893 Db GCAATGATAGAGATTTATATACCTAGAGAGGATCAATGCTCAGTACAGCCATATTTGTC 952  
601 Qy TATGCTGCTAGCTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660  
953 Db TATGCTGCTAGCTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1012  
661 Qy GGAAGGAGATGGAATAAGCAGATGTTATTTGGGGCATTTCCCTATCCAGCTATGCTGTGT 720  
1013 Db GGAAGGAGATGGAATAAGCAGATGTTATTTGGGGCATTTCCCTATCCAGCTATGCTGTGT 1072  
721 Qy GGCACTGCTCTTTCATCAATTTTCATAGCCATTTATTTACCAATGCTTCAAGAGCCATTCCT 780  
1073 Db GGCACTGCTCTTTCATCAATTTTCATAGCCATTTATTTACCAATGCTTCAAGAGCCATTCCT 1132  
781 Qy TTTGGAACAATGGTGGCGGTTTGTGTCATCTGTTTGTATTTTGTATTTCTCTCTAAATCTT 840  
1133 Db TTTGGAACAATGGTGGCGGTTTGTGTCATCTGTTTGTATTTTGTATTTCTCTCTAAATCTT 1192  
841 Qy GTTGATCAATATTTGGCGGAAATCTGTGAGTCAAGCCCAATTTTCTTGTGCTGTCAT 900  
1193 Db GTTGATCAATATTTGGCGGAAATCTGTGAGTCAAGCCCAATTTTCTTGTGCTGTCAT 1252  
901 Qy GCTGTGCTGCTCTATACCGGAGAAATGTTTCATGAGCCCTGCGGTTATTTGTTGC 960  
1253 Db GCTGTGCTGCTCTATACCGGAGAAATGTTTCATGAGCCCTGCGGTTATTTGTTGC 1312  
961 Qy CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTTGAAATGTAATTTCTTCACTGCT 1020  
1313 Db CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTTGAAATGTAATTTCTTCACTGCT 1372  
1021 Qy TTTGGGCATATAAGATCTATTTATGCTATGCTGCTTTCATGCTGCTGCTGCTGCTGCTG 1080  
1373 Db TTTGGGCATATAAGATCTATTTATGCTATGCTGCTTTCATGCTGCTGCTGCTGCTGCTG 1432  
1081 Qy TGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140  
1433 Db TGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1492  
1141 Qy TACCGGTGGCAATGCAAGATTTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1200  
1493 Db TACCGGTGGCAATGCAAGATTTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1552  
1201 Qy TATTCCTTTTACTACTATTTTTCACAAAGAGATGATGGCTTATTTTCAAAACATCATTT 1260  
1553 Db TATTCCTTTTACTACTATTTTTCACAAAGAGATGATGGCTTATTTTCAAAACATCATTT 1612  
1261 Qy TACTTTGGATATATGGCGTATTTAGCACAGCCTTTGGGATATATGTTGGAGCGATT 1317  
1613 Db TACTTTGGATATATGGCGTATTTAGCACAGCCTTTGGGATATATGTTGGAGCGATT 1669

RESULT 10  
US-10-205-219-122  
; Sequence 122, Application US/10205219  
; Publication No. US20030138803A1  
; GENERAL INFORMATION:  
; APPLICANT: Warner-Lambert Company  
; APPLICANT: Lee, Kevin  
; APPLICANT: Dixon, Alister  
; APPLICANT: Brooksbank, Robert  
; APPLICANT: Pinnock, Robert  
; TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain  
; FILE REFERENCE: WL-A-018200  
; CURRENT APPLICATION NUMBER: US/10/205,219  
; CURRENT FILING DATE: 2002-07-24  
; PRIOR APPLICATION NUMBER: GB 0118354.0  
; PRIOR FILING DATE: 2001-07-27  
; NUMBER OF SEQ ID NOS: 197

; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 122  
; LENGTH: 3389  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: EP70-P-iso  
; US-10-205-219-122

Query Match 93.1%; Score 1226; DB 15; Length 3389;  
Best Local Similarity 98.6%; Pred. No. 9,46-293;  
Matches 1300; Conservative 0; Mismatches 10; Indels 8; Gaps 6;  
Qy 1 ATGTACATAGATGATTTTACCAATATGCGGTATTTGCTGAGGCTGATGAAATGGAGAA 60  
Db 410 ATGTACATAGATGATTTTACCAATATGCGGTATTTGCTGAGGCTGATGAAATGGAGAA 469  
Qy 61 GATTTACTATCTTTGGACCTATATAAACTTGAATAGTGTATTAATGGAATTCGAATTCGT 120  
Db 470 GATTTACTATCTTTGGACCTATATAAACTTGAATAGTGTATTAATGGAATTCGAATTCGT 529  
Qy 121 GATGTTAATCTAATCTAGTGAAGGAAAGTGAAGTCTGCTGCTGCTGCTGCTGCTGCTG 179  
Db 530 GATGTTAATCTAATCTAGTGAAGGAAAGTGAAGTCTGCTGCTGCTGCTGCTGCTGCTG 589  
Qy 180 GTCATATTTCAATGTAATGGAAGGAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 239  
Db 590 GTCATATTTCAATGTAATGGAAGGAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 647  
Qy 240 TCTTGATCCGCTCTTTTCAACATCGGATTCATTTGTTTCAATTTTCAATTTTCAATTTT 299  
Db 648 TCTTGATC--GTCCTTTTTCACATCGGATTCATTTGTTTCAATTTTCAATTTTCAATTTT 705  
Qy 300 GATGCTGATCTCTTTGTTGGCTTAGTTTCAATGATTTTAAATGAGAAATTAAGAAAGAA 359  
Db 706 GATGCTGATCTCTTTGTTGGCTTAGTTTCAATGATTTTAAATGAGAAATTAAGAAAGAA 765  
Qy 360 TTATGCTCGGTACAGTAAAGAGGAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 419  
Db 766 TTATGCTCGGTACAGTAAAGAGGAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 825  
Qy 420 ATATGATGGAACACAGGTGCTAGGATGATTTTATAGACCATCAAGTCAAGTCAAGTCA 479  
Db 826 ATATGATGGAACACAGGTGCTAGGATGATTTTATAGACCATCAAGTCAAGTCAAGTCA 885  
Qy 480 TTCTCTCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 539  
Db 886 TTCTCTCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 945  
Qy 540 TGCAATGATAGAGATTTTATATATCTGAGAGGGGATCAATGCTCAGTACAGCCATTTTGT 599  
Db 946 TGCAATGATAGAGATTTTATATCTGAGAGGGGATCAATGCTCAGTACAGCCATTTTGT 1005  
Qy 600 CTATGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 659  
Db 1006 CTATGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1065  
Qy 660 AGGAAGGAGATGGAATAAGCAGATGTTTATTTGGGGCATTTCCCTATTTCCAGCTATG 719  
Db 1066 AGGAAGGAGATGGAATAAGCAGATGTTTATTTGGGGCATTTCCCTATTTCCAGCTATG 1123  
Qy 720 TGGCACTGCTCTTTCATCAATTTTCATAGCCATTTTATTTACCATGCTTCAAGAGCCAT 779  
Db 1124 GTGCACTGCTCTTTCATCAATTTTCATAGCCATTTTATTTACCATGCTTCAAGAGCCAT 1183  
Qy 780 TTTTGGAAACAATGGTGGCGGTTTGTGCAATCTGTTTGTATTTTGTATTTTCTTCTTAAAT 839  
Db 1184 TTTTGGAAACAATGGTGGCGGTTTGTGCAATCTGTTTGTATTTTGTATTTTCTTCTTAAAT 1243  
Qy 840 TGTGTTGATCAATATCTTGGCCGAAATCTGTCAGGTGAGCCCACTTTCTTGTGCTGCTCAA 899  
Db 1244 TGTGTTGATCAATATCTTGGCCGAAATCTGTCAGGTGAGCCCACTTTCTTGTGCTGCTCAA 1303

Qy	900	TGCTGTGCCCTCGTCTATACCGAGAAAAAATGGTTTCATCGAGCCTGC GGTTATTGTTTG	959
Dd	1304	TGCTGTGCCCTCGTCTATACCGAGAAAAAATGGTTTCATCGAG-CTGCGGTTATTGTTTG	1362
Qy	960	CCTGGGTGGAAATTTTACCTTTTGGTTCAATCTTTTATGGAATGTAATTTCACTTCAGTTC	1019
Dd	1363	CCTGGGTGGAAATTTTACCTTTTGGTTTGGTTCAATCTTTTATGGAATGTAATTTCACTTCAGTTC	1422
Qy	1020	TTTTCTGGGCATATAAGATCTATTATGTCATGGCTTCATCATGCTGGTCTGGTTATTCCT	1079
Dd	1423	TTTTCTGGGCATATAAGATCTATTATGTCATGGCTTCATCATGCTGGTCTGGTTATTCCT	1482
Qy	1080	GTCGATTTGCACTGTCTGTGTGACTATFTGTGTGCACATATTTTCTACTAAATCGAGAAGA	1139
Dd	1483	GTCGATTTGCACTGTCTGTGTGACTATFTGTGTGCACATATTTTCTACTAAATCGAGAAGA	1542
Qy	1140	TTACCGGTGGCAATGGACAAGTTTCTCTCTGTGTGCATCAACTGTGCAATCTATGTTTACAT	1199
Dd	1543	TTACCGGTGGCAATGGACAAGTTTCTCTCTGTGTGCATCAACTGTGCAATCTATGTTTACAT	1602
Qy	1200	GTAATTCCTTTTACTACTATTTTCAAACAAAAGATGTATGGCTTATTTCAAACATCATTT	1259
Dd	1603	GTAATTCCTTTTACTACTATTTTCAAACAAAAGATGTATGGCTTATTTCAAACATCATTT	1662
Qy	1260	TTACTTTGGGATATATGGCGGTATTTTAGCACAGCCTTGGGGATATGTGTGGAGCGATT	1317
Dd	1663	TTACTTTGGGATATATGGCGGTATTTTAGCACAGCCTTGGGGATATGTGTGGAGCGATT	1720

RESULT 11  
US-10-956-157-2297  
; Sequence 2297, Application US/10956157  
; Publication No. US20050118625A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William  
; TITLE OF INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH  
; FILE REFERENCE: 031896-043000 (AM 101081)  
; CURRENT APPLICATION NUMBER: US/10/956,157  
; CURRENT FILING DATE: 2004-10-04  
; NUMBER OF SEQ ID NOS: 319805  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 2297  
; LENGTH: 3389  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-956-157-2297

Query Match		93.1%;	Score 1226;	DB 21;	Length 3389;
Best Local Similarity		98.6%;	Pred.No. 9.4e-293;		
Matches 1300;		Conservative	0;	Mismatches 10;	Indels 8; Gaps 6;

Qy	1	ATGTACATAGATGATTTACC AATATGGGGTATTTGTTGGTGAGGCTGATG AAAATGGAGAA	60
Dd	410	ATGTACATAGATGATTTACC AATATGGGGTATTTGTTGGTGAGGCTGATG AAAATGGAGAA	469
Qy	61	GATTACTATCTTTGGACCTATAAAAACTTGAAATAGGTTTTTAATGGAAATCGAATTGTT	120
Dd	470	GATTACTATCTTTGGACCTATAAAAACTTGAAATAGGTTTTTAATGGAAATCGAATTGTT	529
Qy	121	GATGTTTAATCTAACTAGTGAAGGAAGGTGAAACT-GGTTCCAAATACTAAAAATCCAGAT	179
Dd	530	GATGTTTAATCTAACTAGTGAAGGAAGGTGAAACTGGGTTCCAAATACTATAATCCAGAT	589
Qy	180	GT CATATTCAGTAAAAATGGAAAAAGTCAGATGTCAAATTTGAAGATCGATTTTGACAAATA	239
Dd	590	GT CATATTCAGTAAAAATGG-AAAAGTCAGATGTCAAATTTGAAGATCGATTTTGAC-AAATA	647
Qy	240	TCTTTGATCCGTCCTTTTTTCAA CATCGGATTCATTTGGTTTTTCAATTTTCAACTCCCTTCAT	299
Dd	648	TCTTTGATC--GTCCCTTTTTTCA CATCGGATTCATTTGGTTTTTCAATTTTCAACTCCCTTCAT	705





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; LOCATION: (40)..(40)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (525)..(525)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (529)..(529)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (557)..(557)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (837)..(837)
; OTHER INFORMATION: n equals a,t,g, or c
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; NAME/KEY: misc feature
; LOCATION: (912)..(912)
; OTHER INFORMATION: n equals a,t,g, or c
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; NAME/KEY: misc feature
; LOCATION: (956)..(956)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (965)..(966)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1025)..(1025)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1047)..(1047)
; OTHER INFORMATION: n equals a,t,g, or c
; US-10-264-237-1414

Query Match 44.8%; Score 590.4; DB 17; Length 1070;
Best Local Similarity 91.5%; Pred. No. 1.5e-135;
Matches 677; Conservative 0; Mismatches 10; Indels 53; Gaps 3;

Qy 631 TTTGGAGGAGCTCTGATGCTAGACAGGAGGAGGATGGATAAAGCAGATGTTATT 690
Db 20 TTTGGAGGCTCTNTATGATGAGACAGGAGGAGGATGGATAAAGCAGATGTTATT 79

Qy 691 GGGGCATTCCTTATCCAGCTATGGTGTGGCACTGCCCTTCTTCATCAATTTTCATAGCC 750
Db 80 GGGGCATTCCTTATCCAGCTATGGTGTGGCACTGCCCTTCTTCATCAATTTTCATAGCC 139

Qy 751 ATTATATACCATGCTTCAAGAGCATTCCTTTTGGAAACAATGGTGGCGTTTGTGCATC 810
Db 140 ATTATATACCATGCTTCAAGAGCATTCCTTTTGGAAACAATGGTGGCGTTTGTGCATC 199

Qy 811 TGTATTTTGTCTTATCTCTCTCAATCTTGTGGTACATCTTGGCCGAATCTGTCA 870
Db 200 TGTATTTTGTCTTATCTCTCTCAATCTTGTGGTACATCTTGGCCGAATCTGTCA 259

Qy 871 GGTGAGCCCAATCTTCTGTGTCATGCTGTGCTCGTCTCTATACCGGAGAAAAA 930
Db 260 GGTGAGCCCAATCTTCTGTGTCATGCTGTGCTCGTCTCTATACCGGAGAAAAA 319

Qy 931 TGGTTCATGAGCGCTGGGTTATGTTTGGCTGGGTGGAATTTTACCTTTTGGTTCATC 990
Db 320 TGGTTCATGAGCGCTGGGTTATGTTTGGCTGGGTGGAATTTTACCTTTTGGTTCATC 379

Qy 991 TTTATTTGAAATGATTTTCATCTTCACGCTCTTCTGGGCATATAAGATCTTATTTGCTAT 1050
Db 380 TTTATTTGAAATGATTTTCATCTTCACGCTCTTCTGGGCATATAAGATCTTATTTGCTAT 439

Qy 1051 GGCTTCATGATGCTGGTGTCTGGTTATCCTGTGCATTTGTGACTGTCTGTGACTATTGTG 1110

Db 440 GGCTTCATGATGCTGGTGTCTGGTTATCCTGTGCATTTGTGACTGTCTGTGACTATTGTG 499
Qy 1111 TGCACATATTTTCTACTAAATGCAGAA--GATTACCGGT----- 1147
Db 500 TGCACATATTTTCTACTAAATGCAGNAAGNATTACCGGTGTGCCATTCAATTCAAAAGNAG 559
Qy 1148 -----GCGAATGGACAAAGTTTCTCTCTGCTGCATC 1178
Db 560 ATTATATCTTCTTCCCTCCCGCCACAGGCAATGGCAAGTTTCTCTCTGCTGCATC 619
Qy 1179 AACTGCAATCTATGTTTACATGATTTCTCTTACTACTATTTTTCAAAAAAGAGATGTA 1238
Db 620 AACTGCAATCTATGTTTACATGATTTCTCTTACTACTATTTTTCAAAAAAGAGATGTA 679
Qy 1239 TGGCTTATTTCAAACATCATTTTACTTTTGGATATATGCGGTATTTAGCACAGCCTT-GG 1297
Db 680 TGGCTTATTTCAAACATCATTTTACTTTTGGATATATGCGGTATTTAGTACAGCCTTGGG 739
Qy 1298 GGATATGCTGGGAGCATTT 1317
Db 740 GGATATGCTGGGAGCATTT 759

RESULT 14
US-10-242-535A-2630
; Sequence 2630, Application US/10242535A
; Publication No. US20040013663A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
; FILE REFERENCE: 4231/2005
; CURRENT APPLICATION NUMBER: US/10/242,535A
; PRIOR FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 10/085,783
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2630
; LENGTH: 560
; TYPE: DNA
; ORGANISM: Human
; US-10-242-535A-2630

Query Match 40.8%; Score 537.4; DB 17; Length 560;
Best Local Similarity 99.6%; Pred. No. 1.4e-122;
Matches 549; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

Qy 768 AAGAGCCATTCCTTTTGGAAACAATGGTGGCGGTGTTGTGATCTGTTTTTGTATTCT 827
Db 1 AAGAGCCATTCCTTTTGGAAACAATGGTGGCGGTGTTGTGATCTGTTTTTGTATTCT 60

Qy 828 TCCTCTAAATCTTGTGGTACATACTTGGCCGAAATCTGTCAAGTCAAGCCCAACTTTCC 887
Db 61 TCCTCTAAATCTTGTGGTACATACTTGGCCGAAATCTGTCAAGTCAAGCCCAACTTTCC 120

Qy 888 TTGTGCTGCAATGCTGTGCTCGTCTATACCGGAGAAAAAATGGTTATGAGCGCTGC 947
Db 121 TTGTGCTGCAATGCTGTGCTCGTCTATACCGGAGAAAAAATGGTTATGAGCGCTGC 180

Qy 948 GGTATTTTGTGCTGCGTGGAAATTTTACCTTTTGGTTCATCTTATTTGAAATGATTT 1007
Db 181 GGTATTTTGTGCTGCGTGGAAATTTTACCTTTTGGTTCATCTTATTTGAAATGATTT 240

Qy 1008 CATCTTCAGCTCTTCTGGGCATATAAGATCTTATATGCTATGGCTTCATATGCTGGT 1067
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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 13, 2005, 13:05:21 ; Search time 309.708 seconds  
(without alignments)  
6958.083 Million cell updates/sec

US-09-319-724B-2

Title:

Perfect score: 1317

Sequence: 1 atgcacatagatgattacc.....ggataatgtgaggagcatt 1317

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

- Database : Issued Patents NA.\*
- 1: /cgn2\_6/ptodata/1/ina/5A.COMB.seq.\*
  - 2: /cgn2\_6/ptodata/1/ina/5B.COMB.seq.\*
  - 3: /cgn2\_6/ptodata/1/ina/6A.COMB.seq.\*
  - 4: /cgn2\_6/ptodata/1/ina/6B.COMB.seq.\*
  - 5: /cgn2\_6/ptodata/1/ina/PTUS.COMB.seq.\*
  - 6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1317	100.0	1827	4	US-09-786-681A-3
2	1317	100.0	2072	4	US-09-786-681A-1
3	444	33.7	444	4	US-09-621-976-18829
4	383.4	29.1	440	4	US-09-513-999C-3708
5	369.8	28.1	771	4	US-09-270-767-679
6	369.8	28.1	771	4	US-09-270-767-15961
7	209	15.9	2391	4	US-09-949-016-3623
8	209	15.9	2805	3	US-08-959-004-6
9	193	14.7	571	4	US-09-270-767-28434
10	193	14.7	1151	4	US-09-270-767-12633
11	114.6	8.7	726	4	US-09-248-796A-8208
12	100	7.6	262	4	US-09-313-294A-2292
13	91.6	7.0	769	3	US-09-385-982-530
14	73	5.5	433	4	US-09-513-999C-3502
15	64.6	4.9	302	4	US-09-702-705-1002
16	64.6	4.9	302	4	US-09-736-457-1002
17	64.6	4.9	302	4	US-09-614-124B-1002
18	64.6	4.9	302	4	US-09-671-325-1002
19	64.6	4.9	302	4	US-09-658-824-1002
20	56.4	4.3	279	4	US-09-313-294A-4533
21	51.8	3.9	7218	1	US-08-232-463-14
22	51.2	3.9	995	4	US-09-270-767-14715
23	49.2	3.7	601	4	US-09-949-016-127246
24	49.2	3.7	65561	4	US-09-949-016-15365
25	47.8	3.6	299	4	US-09-313-294A-772
26	45.6	3.5	519	1	US-08-686-878A-20
27	45.6	3.5	519	3	US-09-175-928-20

C	28	44.6	3.4	99500	3	US-09-798-096-10	Sequence 10, Appl
	29	44.4	3.4	1141	4	US-09-806-708B-22	Sequence 22, Appl
	30	43	3.3	268	4	US-09-313-294A-909	Sequence 909, App
C	31	42.4	3.2	453	4	US-09-270-767-9089	Sequence 9089, App
	32	42.4	3.2	453	4	US-09-270-767-24371	Sequence 24371, A
C	33	42.2	3.2	1141	4	US-09-806-708B-22	Sequence 22, Appl
	34	42	3.2	640681	4	US-09-790-988-1	Sequence 1, Appl
	35	41	3.1	601	4	US-09-949-016-103893	Sequence 103893, A
C	36	41	3.1	52314	4	US-09-949-016-14622	Sequence 14622, A
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	43	40	3.0	27430	4	US-09-949-016-13402	Sequence 14087, A
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	45	40	3.0	63760	4	US-09-949-016-14088	

ALIGNMENTS

RESULT 1  
US-09-786-681A-3  
; Sequence 3, Application US/09786681A  
; Patent No. 6692926  
; GENERAL INFORMATION:  
; APPLICANT: HIDAKA, Jun et al.  
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L  
; FILE REFERENCE: 0020-4827P  
; CURRENT APPLICATION NUMBER: US/09/786.681A  
; CURRENT FILING DATE: 2001-01-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: Patent in version 3.0  
; SEQ ID NO 3  
; LENGTH: 1827  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (11)..(1747)  
; US-09-786-681A-3

Query Match	100.0%	Score 1317;	DB 4;	Length 1827;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1317;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	ATGTACATAGATGATTTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAAATGGAGAA	60	
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QY	61	GATTACTATCTTTGGACCTATAAAAACTTGAATAGTATTTTAATGGAATCGAATTCGT	120	
Db	434	GATTACTATCTTTGGACCTATAAAAACTTGAATAGTATTTTAATGGAATCGAATTCGT	493	
QY	121	GATGTTAATCTTAATAGTGAAGGAAAGTGGTTCCAAATCTTAAATCTTAAATCCAGATG	180	
Db	494	GATGTTAATCTTAATAGTGAAGGAAAGTGGTTCCAAATCTTAAATCTTAAATCCAGATG	553	
QY	181	TCATATTTCAGTAAATGAAAAAGTCAGATGTGAAATTTGAAGATCGAATTTGACAAATAT	240	
Db	554	TCATATTTCAGTAAATGAAAAAGTCAGATGTGAAATTTGAAGATCGAATTTGACAAATAT	613	
QY	241	CTTGATCCGTCCTTTTTCACATCGGATTCATTTGGTTTCAATTTTCAACTCTCTTCATG	300	
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QY	301	ATGGTGATCTTCTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAGAAAGAT	360	
Db	674	ATGGTGATCTTCTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAGAAAGAT	733	

361 TATGCTCGTACGTAAAGAGAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 420  
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734 TATGCTCGTACGTAAAGAGAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 793  
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794 TATGGATGGAACAGGTGTCATGAGATGATATTTAGACCACCACTCACTCATATTT 853  
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854 TCCTCTCTGATGTTGTTCTGGATGTCAGATATTTGCTGTCTCTCATCGTTATTTGTT 913  
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914 GCAATGATAGAGATTTATATACCTAGAGAGGAGTCAATGCTCAGTACAGCCATATTTGTC 973  
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Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
601 TATGCTGCTAGTCTCCAGTGAATGGTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660  
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Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
974 TATGCTGCTAGTCTCCAGTGAATGGTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1033  
Qy |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
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661 GGAAGGAGATGGAATAAGCAGATGTTTATGGGGCATTCCTTATCCAGCTATGGTGTGT 720  
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1034 GGAAGGAGATGGAATAAGCAGATGTTTATGGGGCATTCCTTATCCAGCTATGGTGTGT 1093  
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721 GGCACCTGCTCTTCATCAATTTTCATAGCCATTTTATACCATGCTTCAAGAGCCATTCCT 780  
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1094 GGCACCTGCTCTTCATCAATTTTCATAGCCATTTTATACCATGCTTCAAGAGCCATTCCT 1153  
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Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
781 TTTGGAACAATGSGTGGCGGTTTGTGTGATCTGTTTTTTTGTATTTCTCTCAAACTCTT 840  
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1154 TTTGGAACAATGSGTGGCGGTTTGTGTGATCTGTTTTTTTGTATTTCTCTCAAACTCTT 1213  
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841 GTTGGTACATACCTTGGCGGAATCTGTGAGTCAAGCCCACTTCTCTGTCGTGTCAT 900  
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1214 GTTGGTACATACCTTGGCGGAATCTGTGAGTCAAGCCCACTTCTCTGTCGTGTCAT 1273  
Qy |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
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901 GCTGTGCTGCTCTTATACCGGAGAAAATGTTTCATGAGCCTGCGGTTATTTGTTTGC 960  
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961 CTGGGTGGAATTTTACCTTTTGGTTTCAATCTTTATGAAATGTATTTTCACTTCACTCT 1020  
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1021 TTCTGGGCATATAGATCTATATGCTATGCGCTTCAATGCTGCTGCTGCTGCTGCTGCTG 1080  
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1394 TTCTGGGCATATAGATCTATATGCTATGCTGCTGCTTCAATGCTGCTGCTGCTGCTGCTG 1453  
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Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
1454 TGCAATTTGTCATGCTGTGTCATTTTGTGTCATATTTTCTACTAAATGCAAGAAT 1513  
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1514 TACCGGTGGCAATGGACAAGTTTCTCTCTGCTGCATCAATGCAATCTATGTTTACATG 1573  
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1574 TATTCCTTTTACTACTATTTTCAAAAACAAGATGATGCTTATTTTCAAACTCATTT 1633  
Qy |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
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1261 TACTTTTGGATATAGCGGTTATTTAGCACAGCCTTGGGGATAATGCTGGAGCGATT 1317  
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## RESULT 2

US-09-786-681A-1  
; Sequence 1, Application US/09786681A  
; Patent No. 6692926  
; GENERAL INFORMATION:  
; APPLICANT: HIDAKA, Jun et al.  
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I  
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES

FILE REFERENCE: 0020-4827P  
; CURRENT APPLICATION NUMBER: US/09/786, 681A  
; CURRENT FILING DATE: 2001-01-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1  
; LENGTH: 2072  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (49)..(1794)  
US-09-786-681A-1

Query Match 100.0%; Score 1317; DB 4; Length 2072;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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421 ATGTACATAGATCATTTACCAATATCGGGTATTGTTGGTGAGGCTGATGAAAATGGAGAA 480  
Qy 61 GATTACTATCTTTGGACCTATAAAAAACCTTGAATAGGTTTTTAATGGAAATCGAATTTGT 120  
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481 GATTACTATCTTTGGACCTATAAAAAACCTTGAATAGGTTTTTAATGGAAATCGAATTTGT 540  
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541 GATGTTAATCTAATAGTGAAGAAAGGTGAAACCTGGTTCCAAATCTAAAAATCCAGATG 600  
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601 TCATATTCAGTAAATAAGGAAAAGTGCAGATGCAAAATTTGAAGATCGATTTGACAAATAT 660  
Qy 241 CTTGATCCGTCCTTTTTCACACATCGGATTCATTGGTTTTTCAATTTTCAACTCTCTTCATG 300  
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661 CTTGATCCGTCCTTTTTCACACATCGGATTCATTGGTTTTTCAATTTTCAACTCTCTTCATG 720  
Qy 301 ATGGTGATCTTCTTGGTGGCTTAGTTTCAATGATTTTAATGAGAACATTTAAGAAAAGAT 360  
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721 ATGGTGATCTTCTTGGTGGCTTAGTTTCAATGATTTTAATGAGAACATTTAAGAAAAGAT 780  
Qy 361 TATGCTCGGTACAGTAAAGAGGAAAGTGCAGATGATGATGATAGAGACCTAGAGAGTAA 420  
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781 TATGCTCGGTACAGTAAAGAGGAAAGTGCAGATGATGATGATAGAGACCTAGAGAGTAA 840  
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841 TATGGATGGAACAGGTGTCATGAGATGATTTTAGACCAATCAAGTCAACCACTCATATTT 900  
Qy 481 TCCTCTCTGATGTTGTTCTGAGATCAGATATTTGCTGTGCTCTCTCATCGTTATTTGTT 540  
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1141 GGCACCTGCTCTTCTCATCAATTTTAGCCATTTATTACCATGCTTCAAGAGCCATTCCT 1200  
Qy 781 TTTGGAACAATGSGTGGCGGTTTGTGTGATCTGTTTTTTTGTATTTCTCTCAAACTCTT 840  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
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QY 841 GTTGTACAACTTGGCCGAAATCTGTGAGTCTAGCCCAACTTTCCTTGTGCTGTCAT 900  
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Db 1321 GCTGTGCTCTCTCTATACCGGAGAAAAATGGTTTCATGAGCCTCGGGTTATTTGTC 1380  
QY 961 CTGGGTGAATTTACCTTTGGTTCAATCTTTTATGAAATGATTTTCACTTCCACGTCT 1020  
Db 1381 CTGGGTGAATTTACCTTTGGTTCAATCTTTTATGAAATGATTTTCACTTCCACGTCT 1440  
QY 1021 TTCTGGGCATATAAGATCTATTATGCTCTATGGCTTTCATGCTGTGCTGCTGTTATCCTG 1080  
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Db 1561 TACGGTGGCAATGAGCAAGTTTCTCTCTGCTGATCACTCAATCAATCTATGTTTACATG 1620  
QY 1201 TATTCCTTTTACTACTATTTTTCAAAAACAAGATGATGCTTATTTTCAAAACATCATTT 1260  
Db 1621 TATTCCTTTTACTACTATTTTTCAAAAACAAGATGATGCTTATTTTCAAAACATCATTT 1680  
QY 1261 TACTTTGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1317  
Db 1681 TACTTTGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGCGATT 1737

RESULT 3

US-09-621-976-18829  
; Sequence 18829, Application US/09621976  
; Patent No. 6639063  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Jobert, S.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
; FILE REFERENCE: GENSET.054PR2  
; CURRENT APPLICATION NUMBER: US/09/621,976  
; CURRENT FILING DATE: 2000-07-21  
; NUMBER OF SEQ ID NOS: 19335  
; SOFTWARE: Patent.pm  
; SEQ ID NO 18829  
; LENGTH: 444  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-621-976-18829

Query Match 33.7%; Score 444; DB 4; Length 444;  
Best Local Similarity 100.0%; Pred. No. 1.2e-108; Indels 0; Gaps 0;  
Matches 444; Conservative 0; Mismatches 0;

QY 130 CTAACCTAGTGAAGAAAGTGAAGTGGTTCCAAATCTATAAATCCAGATGTCATATTCA 189  
Db 1 CTAACCTAGTGAAGAAAGTGAAGTGGTTCCAAATCTATAAATCCAGATGTCATATTCA 60  
QY 190 GTAAAAATGAAAAAGTCAGATGTGAATTTGAAGATCGATTTGACAAATATCTTCATCGG 249  
Db 61 GTAAAAATGAAAAAGTCAGATGTGAATTTGAAGATCGATTTGACAAATATCTTCATCGG 120  
QY 250 TCCTTTTTCACATCGGATTCATTTGTTTCAATTTTCACTCTTCATGATGGTGATC 309  
Db 121 TCCTTTTTCACATCGGATTCATTTGTTTCAATTTTCACTCTTCATGATGGTGATC 180  
QY 310 TTCTTGGTGGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAAAGATTATCTCGG 369  
Db 181 TTCTTGGTGGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAAAGATTATCTCGG 240

QY 370 TACAGTAAAGAGAGGAAATGGATGATATGGATAGAGAGCTAGGAGATGAATATGGATGG 429  
Db 241 TACAGTAAAGAGAGGAAATGGATGATATGGATAGAGAGCTAGGAGATGAATATGGATGG 300  
QY 430 AAACAGGTGATGAGATGATTTTACACCATCAAGTCACCCACTGATATTTTCTCTCTG 489  
Db 301 AAACAGGTGATGAGATGATTTTACACCATCAAGTCACCCACTGATATTTTCTCTCTG 360  
QY 490 ATTGGTTCTGATGTGATGATTTTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTG 549  
Db 361 ATTGGTTCTGATGTGATGATTTTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTG 420  
QY 550 GAAGATTTATATATCTAGAGGGGA 573  
Db 421 GAAGATTTATATATCTAGAGGGGA 444

RESULT 4

US-09-513-999C-3708  
; Sequence 3708, Application US/09513999C  
; Patent No. 6783961  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Duclert, A.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; Patent No. 6783961  
; FILE REFERENCE: 59 US2,REG  
; CURRENT APPLICATION NUMBER: US/09/513,999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 3708  
; LENGTH: 440  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 180..440  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 151  
; OTHER INFORMATION: m=a or c  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 155  
; OTHER INFORMATION: s=g or c  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 162  
; OTHER INFORMATION: k=g or t  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 184  
; OTHER INFORMATION: n=a, g, c or t  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 323  
; OTHER INFORMATION: w=a or t  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 343  
; OTHER INFORMATION: n=a, g, c or t  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 397  
; OTHER INFORMATION: m=a or c  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 400

OTHER INFORMATION: m=a or c  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: 2  
OTHER INFORMATION: Xaa=Lys or Met or Arg or Thr  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: 55  
OTHER INFORMATION: Xaa=Ala or Asp or Gly or Val  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: 73  
OTHER INFORMATION: Xaa=Ala or Asp  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: 74  
OTHER INFORMATION: Xaa=Lys or Thr  
US-09-513-999C-3708

Query Match 29.1%; Score 383.4; DB 4; Length 440;  
Best Local Similarity 95.7%; Pred. No. 1.7e-92;  
Matches 420; Conservative 5; Mismatches 8; Indels 6; Gaps 3;

Qy 218 TTGAAGATCGGATTTGACAAATATCTTGATCGTCCCTTTTTCACATCGGATTCATTGGT 277  
Db 2 TTGAAGATCGGATTTGACAAATATCTTGATCGTCCCTTTTTCACATCGGATTCATTGGT 61

Qy 278 TTTCAATTTTCAACTCCCTTCATGATGGTGATCTTTCTGGTGGGCTTAGTTTCAATGATTT 337  
Db 62 TTTCAATTTTCAACTCCCTTCATGATGGTGATCTTTCTGGTGGGCTTAGTTTCAATGATTT 121

Qy 338 TAATGAGAACATTAAGAAAG----ATTATGCTCGGTACAGTAAGAGGAAGAAATCGAT 393  
Db 122 TAATGAGAACATTAAGAAAGAAATTAATGCTCGGTACAGTAAGAGGAAGAAATCGAT 181

Qy 394 GAT-ATGATAGAGACCTPAGGAGATGAATATGGATGGAACAGGTGCGATGAGATGATT 452  
Db 182 GAGATGATAGAGACCTPAGGAGATGAATATGGATGGAACAGGTGCGATGAGATGATT 241

Qy 453 TAGACCATCAAGTCAACCCACTGATATTTCTCTGATGGTTCTGATGTCAGATATT 512  
Db 242 TAGACCATCAAGTCAACCCACTGATATTTCTCTGATGGTTCTGATGTCAGATATT 301

Qy 513 TGCTGTCTCTCATCGTATTATTGTCATATGTCATGTCGTCACGTCCT-CCAGTGAATGGTTATT 631  
Db 302 TGCTGTCTCTCATCGTATTATTGTCATATGTCATGTCGTCACGTCCT-CCAGTGAATGGTTATT 631

Qy 573 ATCAATGCTCAGTACAGCCATATTTGTCATGTCGTCACGTCCT-CCAGTGAATGGTTATT 631  
Db 362 ATCAATGCTCAGTACAGCCATATTTGTCATGTCGTCACGTCCT-CCAGTGAATGGTTATT 421

Qy 632 TTGGAGGAAGTCTGTATGTC 650  
Db 422 TTGGAGGAAGTCTGTATGC 440

RESULT 5  
US-09-270-767-679/c  
; Sequence 679, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 679  
; LENGTH: 771  
; TYPE: DNA  
; ORGANISM: *Drosophila melanogaster*  
US-09-270-767-679

Query Match 28.1%; Score 369.8; DB 4; Length 771;  
Best Local Similarity 67.7%; Pred. No. 9.5e-89;  
Matches 518; Conservative 0; Mismatches 247; Indels 0; Gaps 0;

Qy 190 GTAAATGGAAAAAGTCAGATGTCAAATTTGAAGATCGATTTGACAAATATCTTGATCCG 249  
Db 765 GTCACTGGAAAGCCAGCAAGGTGGAGTTCAAGAAATCGATTCCCAAGTACCTGGATCCC 706

Qy 250 TCCTTTTTCACATCGGATTCATTTGGTTTTCATTTTCAATTTTCACTCTTTCATGATGGTATC 309  
Db 705 AACTTCTTCCAGCACAGGATCCACTGGTTCCAGCATCTTCAACAGCTTTCATGATGGTATC 646

Qy 310 TTCTTGGTGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAGATTTATGTCGG 369  
Db 645 TTCTTGGTGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAGATTTATGTCGG 586

Qy 370 TACAGTAAAGAGGAAGAAATGGATGATATGATAGAGACCTAGGAGATGAATATGATGG 429  
Db 585 TACAGTAAAGAGGAAGAAATCGACATAGGAGGAGATCTTGGTGAATAGATACGGCTGG 526

Qy 430 AAACAGGTGATCGAGATGATTTTAGACCATCAAGTACCCACTGATATTTTCTCTCTCTG 489  
Db 525 AAGCAGGTGATCGAGATGATTTCCGTTCTCCGCCCAACACACTGCTCTTCTCGGGCTTG 466

Qy 490 ATTGTTCTGATGTCAGATATTTGCTGTGCTCTCATCGTTATTTTGTGCAATGATA 549  
Db 465 GTGGGCGCTGATACCAACTGATTTCCGTTGTTATCTGTGTGATCATGTTCCGCCATAGTT 406

Qy 550 GAAGATTTATATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTCTATGCTGCT 609  
Db 405 GGTGAATTTGACAGGNAACGGGCTCCATGCTGTCCAGGCTATATTTGTGATGCGGCC 346

Qy 610 ACCTCTCCAGTGAATGTTATTTTGGAGGAAGTCTGTATGCTAGACAGAGGAAGAGAGA 669  
Db 345 ACCTCAACCAATCAATGGATACTTTGGAGGATCGCTCTATGCCGCCCTGGGTGGACGATG 286

Qy 670 TGGTAAAGCAGATGTTTATTTGGGGCATTCCTTATCCAGCTATGTTGTGTCACCTGCC 729  
Db 285 TGGATCCGACAGATGCTGGTGTCCGCTTTTACAGTCCAGTGGCTGTGTGGGACGGCT 226

Qy 730 TTCTTCAATCAATTTTATAGCCATTTATTTACATGCTTCAAGAGCCATTCCTTTTGGAAACA 789  
Db 225 TTCTGATCAACTTCAATTTGCAATTTGGATATCAGCCTCGAGAGCCATTCCTTTGGTACC 166

Qy 790 ATGGTGGCGGTTTGTGTCATCTGTTTGTGTTTATTTTCTTCTTAAATCTTGTGTTGATCA 849  
Db 165 ATGGTGGCGGTCACGTGTCATCTGCTGTTTGTGTCATCTGCTCCCTTGAATCTGTTGGGTACT 106

Qy 850 ATACTTGGCCGAATCTGTCAGGTGAGCCCAACTTTCTTCTGTCGTCATGTCGTCCT 909  
Db 105 GTCTGGGGCGCAATCTGGACGGCCCAACCGGATCTTCCATGCCGCGTCAACGGCGTGCCA 46

Qy 910 CGTCTCTATACCGAGAAAAAATGTTTCATGAGCGCTGCGGTTATT 954  
Db 45 CGACCCCATTTCCGAAAGAAAGTGTGTACATGAGGCCACTGATTATT 1

RESULT 6  
US-09-270-767-15961/c  
; Sequence 15961, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 15961  
; LENGTH: 771  
; TYPE: DNA  
; ORGANISM: *Drosophila melanogaster*  
US-09-270-767-15961



ORGANISM: Drosophila melanogaster  
US-09-270-767-15961

Query Match 28.1%; Score 369.8; DB 4; Length 771;  
Best Local Similarity 67.7%; Pred. No. 9.5e-89;  
Matches 518; Conservative 0; Mismatches 247; Indels 0; Gaps 0;

QY 190 GTAAATGGAAGTTCAGATGTGAATTTGAAGATCGATTGCAAAATATCTTGATCCG 249  
DB GTCACTGGAAGCCAGCAAGGTGAGTTCAAGATCGATTGCAAGTACTTGATCCC 706

QY 250 TCCCTTTTCAACATCGGATTCATTTGTTTCAATTTTCAACTCCTTCATGATGATC 309  
DB AACCTTCTCCAGCACAGGATCCACTGGTTGACATCTTCAACAGCTTCATGATGATC 646

QY 310 TTTCTGGTGGCTTAGTTTCAATGATTTAATAGAAATTAAGAAAGATTAATGCTCG 369  
DB TTTCTGGTGGCTTGGTCTGATGATTTCTGCGAATCTGCGCAAGGATTAATGCTCG 586

QY 370 TACAGTAAGAGGAAGAAATGATGATGATGATGATGATGATGATGATGATGATG 429  
DB TACAGTAAGAGGAAGAAATGATGATGATGATGATGATGATGATGATGATGATG 526

QY 430 AAACAGGTGCGATGAGATGATTTAGAACATCAAGTCAACCACTGATTTTCTCTCTG 489  
DB AAGCAGGTGCGATGCGGATGCTTCCGTTCTCCGCCCAACACACTGCTCTTCTCGCGCTG 466

QY 490 ATTGTTCTGATGTCAGATATTTGCTGTGCTCTCATCGTTATTTATTTGTCATGATA 549  
DB GTGGCGCTGGAATACCACTGATTTTCCGTTGATTTCTGTGATCATGTTGCGCCATGTT 406

QY 550 GAAATTTATATACGTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTTCTATCTGCT 609  
DB GGTGAATTGTACAGGAACGCGCTCCATGCTGTCCAGCGCTATATTTGTATGTCGCGCC 346

QY 610 AGCTCTCCAGTCAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGAGGAGA 669  
DB ACTCACCANTCAATGGATCTTTGGAGATCGCTCTATGCCCGCTGGGTGACGATG 286

QY 670 TGAATAAGCAGATGTTTATGGGCAATTCCTATCCAGCTATGCTGTGTTGGCACTGCC 729  
DB TGGATCCGACAGATGCTGTGCTCCGCTTTTACAGTTCCAGTGGCTGTGTGCGGCAAG 226

QY 730 TTTCTTCATCAATTTATACCAATTTATACCAATGCTTCAAGAGCCATCTTTTGGAAACA 789  
DB TTTCTGATCACTTCAATGCCATGATATACGCTTCGAGAGCCATTTCCCTTCGGTACC 166

QY 790 ATGGTGGCGGTTGTTGCACTCTGTTTTTTTGTATTTCTTCTTAAATCTTGTGGTACA 849  
DB ATGGTGGCGGTCACTGATCTGCTGTTTGTATCTGCTGCTGCTGCTGCTGCTGCTGCT 106

QY 850 ATACTTGGCCGAATCTGTGAGTCAGCCCAACTTTTCTTGTGCTGCTGCTGCTGCTGCT 909  
DB GTCTGGGCGGCAATCTGAGCGCCCAACCGGACTTTTCCATGCGCGGTCAACGCGGTGCA 46

QY 910 CGTCTATACCGGAGAAATGTTTCATGAGCGCTGCGGTTATT 954  
DB CGACCCATTTCCGAAAGAGTGGTACATGGAGCCACTGATTATT 1

RESULT 7  
US-09-949-016-3623  
Sequence 3623, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CL001307  
CURRENT APPLICATION NUMBER: US/09/949, 016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 3623  
LENGTH: 2391  
TYPE: DNA  
ORGANISM: Human  
US-09-949-016-3623

Query Match 15.9%; Score 209; DB 4; Length 2391;  
Best Local Similarity 52.1%; Pred. No. 1.3e-45;  
Matches 548; Conservative 0; Mismatches 485; Indels 18; Gaps 3;

QY 236 AATATCTTGATCCGCTCTTTTCAACATCGGATTCATTTGTTTCAATTTTCAATTTTCAACTCCT 295  
DB ACTATATTTCTGGAGTCTATGCTCATATCCACATTCAGTGGTTTATGATTAATGATTTCC 1055

QY 296 TCATGATGCTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAAATGAGAACTTAAGAA 355  
DB TGGTCAATGTTCTTCTTATCTGGAATGGTAGCTATGATTTATGTTACGGACACTGCACA 1115

QY 356 AAGATTATGCTCGGTACAGTAAGAGGAGAAATGGATGATATGATAGAGACCTAGGAG 415  
DB AAGATTATGCTAGATATAATCAGATGGACTCTACGGAAGATGCCAG-----G 1163

QY 416 ATGAATATGATGAAACAGGTGATGAGATGATTTAGACCATCAAGTCACCCACTGA 475  
DB AAGAAATTTGGCTGGAACCTTGTTCATGTGATATATTCGTCCTCCAAAGAAAGGGATGC 1223

QY 476 TATTTTCTCTCTCATTTGTTCTGATGTCAGATATTTGCTGTGCTCTCATCGTTATTA 535  
DB TGCTATCAGTCTTCTTAGGATCCGGACACAGATTTTAAATTTATGACCTTTTGTACTCTAT 1283

QY 536 TTGTTGCAAGATAGAGATTTATATCTG---AGAGGGATCAATGCTCAGTACAGCCA 592  
DB TTTTCGCTTGCTGGGATTTTGTACCTGCCAACCGAGAGCGCTGATGCTGTGCTG 1343

QY 593 TATTTGCTATGCTGCTACGCTCTCAGTGAATGTTTATTTGGAGGAAGTCTGTATGCTA 652  
DB TGGTCTCTGCTGCTGCTGGGACCCCTGCGAGGCTATGTTGCTGCCAGATTTCTATAGT 1403

QY 653 GACAGGAGGAGAGATGATGATAAGCAGATGTTTATTTGGGCAATTCCTTATCCAGCTA 712  
DB CTTTGGAGGTGAGAGTGGAAACAATGTTTATTAACATCATTTCTTGTCTCTGGGA 1463

QY 713 TGGTGTGGCACTGCTTCTTCAATTTCAATTTTCATAGCCATTTATACCATGCTTCAAGNG 772  
DB TTGTATTTGCTGACTTCTTTTATTAATGAATCTGATCCTCTGGGGAGAGGATCTTCAGCAG 1523

QY 773 CATTCTCTTTGGAAACATGTTGGCGGTTTGTGATCTGTTTTTTTGTATTTCTTCTCCTC 832  
DB CTTATCTCTTTTGGGACACTGTTGGTGGCATATTTGGCCCTTTTGTGCTGATCTGTGCTC 1583

QY 833 TAAATCTTTGTTGGTACAAATCTTGGCCGAAATCTGTGAGTCCAGCCCAACTTTTCTTGTGC 892  
DB TGACGTTTATTTGGTGCATCTTTGTTTAAAGAAATGCCATTTGAACAC---CCAGTTTC 1640

QY 893 GTGTCAATGCTGTGCTCTCTATACCGGAGAAATGTTTCAATGAGGCTTGGCGTTA 952  
DB GAAACCAATCAGATTTCCAGTCCAGATTTCTGTAACAGTCTTCTACAGAGCCCTTGGCTG 1700

QY 953 TTGTTTGGCTGGTGAATTTTACCTTTTGGTTCATCTTTTATGAAATGATTTTCACTCT 1012  
DB GTATTATCATGGAGGATTTTGGCCCTTTTGGCTGCACTTTTATACACTTTTCTTCTTCTC 1760

QY 1013 TCACGCTTTTCTGGGCATATAAGATCTATTTATGTTATGCTTATGCTTCAATGCTGCTGG 1072  
DB TGAATAGTATTTGGTTCACACAGATGATTTACATGTTTGGCTTCTCTATTTCTGGTGTTA 1820

QY 1073 TTATCTGTGCAATGCTGACTGCTGTGAGCTATTTGTGTGACATATTTTCTTACTAAATG 1132

Db 1821 TCAATTTGGTTATTAACCTGTTCTGAGCAACTATATCTTCTTGGTATTTCCACTATGTG 1880  
Qy 1133 CAGAAGATTACCGGTGGCAATGAGCAAGTTTCTCTGCTGCAATCAACTGCAATATG 1192  
Db 1881 CAGAGGATTATCAATGGCAATGGCGTTTCATTCCTTACGAGTGGCTTTACTGCAATTTAT 1940  
Qy 1193 TTTACATGATTCCTTTTACTACTATTTTTCAAAACAAGATGATGGCTTATTTCAA 1252  
Db 1941 TCCTTAATCTATGCAATACACTACTTCTTTTCAAACTGCAGATCACGGGAACAGCAAGCA 2000  
Qy 1253 CATCATTTTACTTTGGATATATGGCGGTATT 1283  
Db 2001 CAATCTGTACTTTGGTTATACCATGATAAT 2031

## RESULT 8

US-08-959-004-6

; Sequence 6, Application US/08959004

; Patent No. 6197543

; GENERAL INFORMATION:

; APPLICANT: Hillman, Jennifer L.

; APPLICANT: Yue, Henry

; APPLICANT: Corley, Neil C.

; APPLICANT: Lal, Preeti

; APPLICANT: Shah, Purvi

; APPLICANT: Kaser, Matthew

; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE

; TITLE OF INVENTION: PROTEINS

; NUMBER OF SEQUENCES: 11

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Incyte Pharmaceuticals, Inc.

; STREET: 3174 Porter Drive

; CITY: Palo Alto

; STATE: CA

; COUNTRY: USA

; ZIP: 94304

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FastSEQ for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/959,004

; FILING DATE: Herewith

; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Billings, Lucy J.

; REGISTRATION NUMBER: 36,749

; REFERENCE/DOCKET NUMBER: PF-0414 US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 650-855-0555

; TELEFAX: 650-845-4166

; TELEX:

; INFORMATION FOR SEQ ID NO: 6:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 2805 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; IMMEDIATE SOURCE:

; LIBRARY: ADRETUT06

; CLONE: 2822412

US-08-959-004-6

Query Match 15.9%; Score 209; DB 3; Length 2805;

Best Local Similarity 52.1%; Pred. No. 1.4e-45;

Matches 548; Conservative 0; Mismatches 485; Indels 18; Gaps 3;

Qy

236 AATATCTTGATCCGTCCTTTTTCACACATCGGATTCATTTGGTTTTCATTTTCAATTTTCAACTCCT 295

Db 1044 ACTATATTCTGGAGTCTATGCCTCATACCACATTCAGTGGTTTAGCATTTAGTAATCCC 1103  
Qy 296 TCATGATGATGATCTTCTTGGTGGGCTTAGTTTCAATGATTTAAATGAGAACATTAAGAA 355  
Db 1104 TGGTCATTGTCTCTTCTTATCTGGAATGGTAGCTATGATTTATGACGACACTGCACA 1163  
Qy 356 AAGATTTATGCTCGGTACAGTAAAGAGAGAAATGATGATATGGATAGAGACCTAGGAG 415  
Db 1164 AAGATATTGCTAGATATAATCAGATGGACTCTACGGAAGATGCCAG-----G 1211  
Qy 416 ATGAATATGATGAGAAACAGGTGATGGAGATGATTTTAGACCATCAAGTCAACCCTGA 475  
Db 1212 AAGATTTGCTGGAAACTTGTTCATGGTGATATATTCGTCTCTCAAGAAAGGGATGC 1271  
Qy 476 TATTTTCTCTCTGATTTGGTCTGGATGTCAGATATTTGCTGTCTCTCATCGTTATTA 535  
Db 1272 TGCTATCAGTCTTTCTAGGATCCGGGACACAGATTTTAAATATGACCTTTGTGACTTAT 1331  
Qy 536 TTGTTGCAATGATAGAGATTTATATACGTG--AGAGGGGATCAATGCTCAGTACAGCCA 592  
Db 1332 TTTTTCGCTTGGCTGGGATTTTGTCCACTGCCAACCGAGAGCGCTGATACGTGTCTG 1391  
Qy 593 TATTTGTCTATGCTGTACGTCTCCAGTGAATGTTTATTTGGAGGAAGTCTGTATGCTA 652  
Db 1392 TGGTCTGTGGTGCTGCTGGGCACTCCCTGCAGGCTATGTTGCTGCCAGATTCTATAAGT 1451  
Qy 653 GACAAGAGGAAGAGATGATTAAGCAGATGTTTATTTGGGGATTTCTTTATCCAGCTA 712  
Db 1452 CCTTTGGAGGTGAGAAATGGAACAAATGTTTTTAAACATCATTTCTTTGCTCTGGGA 1511  
Qy 713 TGGTGTGGCACTGGCTTCTTCATCAATTTCTATAGCAATTTATACCATGCTTCAAGAG 772  
Db 1512 TTGTATTTGCTGACTTCTTTATTAATGAATCTGATCCTCTGGGAGAGAGATCTTACAG 1571  
Qy 773 CCATTTCTTTTGGAAACAATGGTGGCGTTTGTGTGCATCTGTTTTTTTGTATTCTTCTC 832  
Db 1572 CTATTTCTTTTGGACACTGGTTGCCATATTTGGCCCTTTTGGTTCTGCATATCTGTGCTC 1631  
Qy 833 TAAATCTTTGTTGTATCAATACTTTGGCGGAAATCTGTGAGTCAAGCCCACTTTCTTGTG 892  
Db 1632 TGACGTTTATTTGTTGCATCTTTTGGTTTAAAGAAAGATGCCATTGAACAC---CCAGTTC 1688  
Qy 893 GTGTCATGCTGTGCTCGTCTATACCGAGAGAAAATGGTTTCATGAGCCCTGCGGTTA 952  
Db 1689 GAACCAATCAGATTCACAGTCAAGTCTCCTGAACAGTGGTTCTACACGAAGCCCTTGCCTG 1748  
Qy 953 TTGTTTGCCTGGGTGGAAATTTTACCTTTTGGTTTCAATCTTTTATTTGAAATGATTTTCA 1012  
Db 1749 GTATTTATCATGGGAGGATTTTGGCCCTTTGGCTGCATCTTTTATACAACTTTTCTTCA 1808  
Qy 1013 TCACGCTTTTCTGGGATATAAGATCTATATGCTCTATGCTTCAATGATGCTGGTGTGG 1072  
Db 1809 TGAATAGTATTTGGTCAACACAGATGATATACATGTTTGGCTTCTTATTTCTGGTGTTA 1868  
Qy 1073 TTATCTGTGCAATTTGTGACTGTCTGTGTGATATTTGTGTGCACATATTTTCTACTAATG 1132  
Db 1869 TCAATTTGGTTATTAACCTGTTCTGAAGCAACTATATCTTTTGTCTATTTCCACTATGTG 1928  
Qy 1133 CAGAAGATTACCGGTGGCAATGGCAAGTTTCTCTCTGCTGCATCAACTGCAATCTATG 1192  
Db 1929 CAGAGGATTATCATTTGGCAATGGCTTCAATCTTACGAGTGGCTTTTACTGCAATTTAT 1988  
Qy 1193 TTTACATGATTTCTTTTACTACTATTTTTCAAAACAAGATGATGGCTTATTTCAA 1252  
Db 1989 TCTTAATCTATGCAATACACTACTTCTTTTCAAACTGCAGATCACGGGAACAGCAAGCA 2048  
Qy 1253 CATCATTTTACTTTGGATATATGCGCGTATT 1283  
Db 2049 CAATTTGTTACTTTGGTTTATACCATGATAAT 2079

RESULT 9

Db	61	1094	121	1154	181	1214	241	1274	301
Db	AGATCTACTAGCTTACGGCTTCAATGTTGCTGGTTTTCAGCATCTCTGACTGTGTGTCACCG	TCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACGGTGGCAAT	TGTGCGTGCACCATCGTGTGCACCTACTTCTGTCTAAATGCCAGGATTACCGATGGCAGT	GGACAAGTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGATATTCCTTTTACT	GGACGAGTTTTCATGCTGCGGCTCCAGTCTGATTACGTGTACGCCCTATTCCTTCTATT	ACTATTTTTTCAAAACAAGATGTATGGCTTATTTTCAAAACATCAATTTTACTTTGGATATA	ACTTCTTCTTTTAAACCAAAATGTCGGTCTGTTTCCAAAGCGCTTCTACTTTGGCTACA	TGGCGGTATTAGCACAGCCCTGGGATATGTGTGG	TGGCACTCTTTCAGCGCGCTTGGGCATTATCTGCGG
Qy	1153	1153	180	1213	240	1273	300	1310	337

  

Db	658	13	718	73	778	133	838	193	898	250	958	310	1018	370
Qy	GGAGGAAGGAGATGGATAAAGCAGATGTTTATGGGGCAATTCCTTATCCCGACTATGGTG	GGTGTCACAATTCGAAATTAATGTTTTTGACACCAAGTTTTAGTACACGGAATTTTG	TGTGGCACTGCTTCTTCATCAATTTTCATAGCCATTTATACCATGTTTCAAGGCCATT	TCTCTGGTTTTTCGTTGTGTGAATTTCTTTTTTAATTCAGTACAACTTCCTGGTCTATT	CTTTTTCGAAACAATGGTGGCGTTTGTGTCATCTGTTTTTTTGTATTCTTCCTCTAAAT	CATATGGGACAATGTTTGGCAATGCTTAATTTGGTTCATATATCGATTCCAATTAAGT	CTTGTGTGTACAATACTTTGGCGGAAATCTGTCAAGTACGCCCACTTTCTTGTCTGTGTC	GTTATTGGATCAATTTTAGCTAGTAATAAGACCATTTATTATC--GGTACCAGTGAGAACT	AATGCTGTGCTCGTCTCTATACCGGAGAAAAATGGTTCATGGAGCCCTGGGTTATTTGTT	AATCAAAATTCGAAGACAAATTCCTACTCAACCATGGTATTTTAAAGTACTATCCCGGTAATG	TGCGTGGTGGAAATTTTACCTTTTGGTTTCAATCTTTATTTGAAATGATTTTCACTTTCACG	TTTATTTTCGGGAATTTTCCCAATTTGGATCAATGCTGTGGAAATGATTTTATTTATTCA	TCTTTCTCGGCATATAAGATCTATTATGCTATGAGCTTCATGATGCTGGTGTGTTATC	TCAATTTGTTTAAATAAGATTTTTTATATGTTTGGATTTTTTATTTTCTGTGTTTCATATTA
Db	717	72	777	132	837	192	897	249	957	309	101	369	107	429

  

Query Match	8.7%	Score 114.6	DB 4	Length 726
Best Local Similarity	51.7%	Pred. No. 1.2e-20		
Matches 286	Conservative	0	Mismatches 264	Indels 3
Gaps				

  

Db	658	13	718	73	778	133	838	193	898	250	958	310	1018	370
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Db	717	72	777	132	837	192	897	249	957	309	101	369	107	429

  

US-09-248-796A-6208	US-09-248-796A-6208
Sequence 6208, Application US/09248796A	Sequence 6208, Application US/09248796A
Patent No. 6747137	Patent No. 6747137
GENERAL INFORMATION:	GENERAL INFORMATION:
APPLICANT: Keith Weinstock et al	APPLICANT: Keith Weinstock et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDID	TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDID
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS	TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.132	FILE REFERENCE: 107196.132
CURRENT APPLICATION NUMBER: US/09/248,796A	CURRENT APPLICATION NUMBER: US/09/248,796A
CURRENT FILING DATE: 1999-02-12	CURRENT FILING DATE: 1999-02-12
PRIOR APPLICATION NUMBER: US 60/074,725	PRIOR APPLICATION NUMBER: US 60/074,725
PRIOR FILING DATE: 1998-02-13	PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: US 60/096,409	PRIOR APPLICATION NUMBER: US 60/096,409
PRIOR FILING DATE: 1998-08-13	PRIOR FILING DATE: 1998-08-13
NUMBER OF SEQ ID NOS: 28208	NUMBER OF SEQ ID NOS: 28208
SEQ ID NO 6208	SEQ ID NO 6208
LENGTH: 726	LENGTH: 726
TYPE: DNA	TYPE: DNA
ORGANISM: Candida albicans	ORGANISM: Candida albicans
US-09-248-796A-6208	US-09-248-796A-6208

Qy	1078	CTGCGCANTGTGACGTCTCTGTGCGACATATTGTGTGCGACATATTTCTACTAAATGCGAA	1137
Db	430	ATGATTTTAACTAGTAGTTTAAATTTACTATTTTAAATGATTTTATTATATCTTTATGTTCAGAA	489
Qy	1138	GATTACGGTGGCAATGGACAAGTTTTCCTCTGCTGCGACCAACTGCAATCTATGTTTAC	1197
Db	490	AAATTAAATGGCAATGCAAAATCATTTATTTGTTGGAGGAGTTCTGCAATTTATGATTTT	549
Qy	1198	ATGTAATCCTTTT	1210
Db	550	ATTCATTCATTTT	562

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RESULT 12
US-09-313-294A-2292
; Sequence 2292, Application US/09313294A
; Patent No. 6476212
; GENERAL INFORMATION:
; APPLICANT: Lalgudi, Raghunath V.
; APPLICANT: Ito, Laura Y.
; APPLICANT: Sherman, Bradley K.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR
; FILE REFERENCE: PL-0017 US
; CURRENT APPLICATION NUMBER: US/09/313,294A
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 7600
; SOFTWARE: PERL Program
; SEQ ID NO 2292
; LENGTH: 262
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6476212 700552439H1
US-09-313-294A-2292

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Query Match	7.6%;	Score 100;	DB 4;	Length 262;
Best Local Similarity	68.3%;	Pred. No. 6.2e-17;		
Matches 153;	Conservative 0;	Mismatches 70;	Indels 1;	Gaps 1;
QY	1094	TCGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACCGGTGGCAAT	1153	
DB	39	TCYGGGTCACTATTGTGGTACTATTTCCTGTGAACGCCGGAACACTCAATTGGCAAT	98	
QY	1154	GGACAAGTTTTCTCTGTGTCATCAACTGCAATCTAATGTTTACATGATATTCCTTTTACT	1213	
DB	99	GGACGTGGTTTTCTTCTGACGCGTCAACCGCTCTGTACGTGTACTGTACTCCATCTACT	158	
QY	1214	ACTATTTTTTCAAAACAAGATGTATGGCTTATTTCAAACATCATTTTACTTTGGATATA	1273	
DB	159	ACTACCATGTGAACAACAAGATGTCAGGCTTCTCCAGACAAGTTTCTATTTTCGGCTACA	218	
QY	1274	TGGCGGTATTTAGACAGCCCTGGGGATAATGTGTGGAGCAAT	1317	
DB	219	CGCTGATGTTCTGC-CTGGGCTAGGCATCTTTGTGGAGCTATT	261	

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RESULT 13
US-09-385-982-530/c
; Sequence 530, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
; APPLICANT: ENDEGE, WILSON O., ET AL.
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; TITLE OF INVENTION: PRODUCTS: II
; FILE REFERENCE: CCDNA-260XX
; CURRENT APPLICATION NUMBER: US/09/385,982
; CURRENT FILING DATE: 1999-08-30
; EARLIER APPLICATION NUMBER: 09/328,111
; EARLIER FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: 60/117,393
; EARLIER FILING DATE: 1999-01-27

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; EARLIER APPLICATION NUMBER: 60/098,639
; EARLIER FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 544
; SOFTWARE: fastseq for Windows Version 3.0
; SEQ ID NO 530
; LENGTH: 769
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(769)
; OTHER INFORMATION: n = A,T,C or G
US-09-385-982-530

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Gaps	0						
Qy	905	TGCTCTCCTCCTATACCGGAGAAAAATGGTTCATGAGCGCTGCGGTATTTGTTTGCTCGG	964				
Db	308	TCCACNGTCAGATTCCTGACACGTCGTTACACGAAGCCCTTGGCTGGTATTATCATGG	249				
Qy	965	GTGGAATTTTACCTTTTGGTTCAACTCTTATTCGAATATTTCACTTCACGCTCTTTCT	1024				
Db	248	GAGGGATTTTGGCCCTTGGCTGCGATCTTATATACAACCTTTCTTCATCTCGAAATAGTATTT	189				
Qy	1025	GGGCATATAGATCTATTTATGTCATGGCTTCATGATCTGGTGGCTGGTTATCCTGTGCA	1084				
Db	188	GGTCACACCAAGATGTTACATGCTTTGGCTTCCTATTTCTGGTGTTTATCATTTTGGTTA	129				
Qy	1085	TTGTGACTCTCTGTGCACTATTGTGTGCACATATTTTCTACTAAATGCAGAGATTACC	1144				
Db	128	TTACCTGTCTCTGAAGCAACTATACTCTTTTGGCTATTTCACCTATGTGCAGAGGATATC	69				
Qy	1145	GGTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTT	1195				
Db	68	ATTGGCAATGGCGTTCATTTCTTACGAGTGGCTTTTACTGCAAGTTATTTCT	8				

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RESULT 14
US-09-513-999C-3502
; Sequence 3502, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 3502
; LENGTH: 433
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 100..432
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 86
; OTHER INFORMATION: m=a or c
US-09-513-999C-3502

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0.

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361 ATGTACATAGATGATTACCAATATGGGTATTCTGCTGAGGCTGATGAAATGGAGAA 420  
Qy 61 GATTACTATCTTT 73  
Db ||||||||||||||||  
421 GATTACTATCTTT 433

RESULT 15  
US-09-702-705-1002/c  
; Sequence 1002, Application US/09702705  
; Patent No. 6504010  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Lodes, Michael A.  
; APPLICANT: Fanger, Gary  
; APPLICANT: Vedvick, Tom  
; APPLICANT: Carter, Darrick  
; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; APPLICANT: Fan, Liqun  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER  
; FILE REFERENCE: 210121.478C14  
; CURRENT APPLICATION NUMBER: US/09/702,705  
; CURRENT FILING DATE: 2000-10-30  
; NUMBER OF SEQ ID NOS: 1833  
; SOFTWARE: Fast-Seq for Windows Version 3.0  
; SEQ ID NO 1002  
; LENGTH: 302  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-702-705-1002

Query Match 4.9%; Score 64.6; DB 4; Length 302;  
Best Local Similarity 56.2%; Pred No. 1.9e-07;  
Matches 149; Conservative 0; Mismatches 104; Indels 12; Gaps 1;  
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Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
253 TTACTGACCATGAGTGACGTCACATCCACTGGTTTCTATCATTAACCTCGTTGTGT 194  
Qy 303 GGTGATCTTCTGGTGGGCTTAGTTTCAATGATTTTATGAGAACATTAAGAAAGATTA 362  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
193 GGTCTTCTTCTGTGTCAGGTATCCTGAGCATGATTATCATTCGACCCTCCGGAAGGACAT 134  
Qy 363 TGCTCGGTACAGTAAGAGAGAAATGATGATGATAGAGACCTAGGAGATGAATA 422  
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133 TGCCAACTACAAAGGAGGATGACATTGA-----AGACACCATCGAGGAGTC 86  
Qy 423 TGGATGGAACAGGTGCGATGGAGATGATTTTAGACCATCAAGTCAACCATGATATTTTC 482  
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
85 TGGGTGGAAGTTGGTGACGGGCGCTCTTCAGGCCCCCCAGTACCCCATGATCCTCAG 26  
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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 9, 2005, 13:22:35 ; Search time 95.1527 Seconds  
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Maximum Match 100%  
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	2347	100.0	582	16	US-10-755-466-2
3	2340	99.7	545	10	US-09-374-046A-26
4	2340	99.7	545	15	US-10-616-263-26
5	1543	65.7	530	14	US-10-205-219-121
6	1437	61.2	596	16	US-10-425-115-325471
7	1436	61.2	576	15	US-10-425-114-66140
8	1435	61.1	552	16	US-10-425-115-286624
9	1430	60.9	594	16	US-10-767-701-44284
10	1428.5	60.9	595	16	US-10-425-115-325582
11	1424	60.7	617	16	US-10-437-963-141888

12	1412	60.2	596	16	US-10-437-963-116913	Sequence 116913,
13	1411	60.1	595	16	US-10-739-930-9909	Sequence 9909, Ap
14	1278.5	54.5	424	16	US-10-437-963-103141	Sequence 103141,
15	1158	49.3	500	16	US-10-425-115-206340	Sequence 206340,
16	915.5	39.0	341	15	US-10-424-599-246293	Sequence 246293,
17	911.5	38.8	622	16	US-10-425-115-202293	Sequence 202293,
18	910.5	38.8	627	15	US-10-425-114-42573	Sequence 42573, A
19	907.5	38.7	595	16	US-10-767-701-45514	Sequence 45514, A
20	906	38.6	624	15	US-10-425-114-45661	Sequence 45661, A
21	906	38.6	647	15	US-10-424-599-204944	Sequence 204944,
22	905.5	38.6	589	16	US-10-425-115-359244	Sequence 359244,
23	903	38.5	645	16	US-10-739-930-11074	Sequence 11074, A
24	902.5	38.5	623	15	US-10-425-114-62405	Sequence 62405, A
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30	842.5	35.9	625	14	US-10-394-136-54	Sequence 54, Appl
31	842.5	35.9	642	14	US-10-201-964-1	Sequence 1, Appl
32	842.5	35.9	642	16	US-10-885-101-1	Sequence 1, Appl
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34	812	34.6	218	15	US-10-264-237-2819	Sequence 2819, Ap
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36	786	33.5	237	15	US-10-425-114-37846	Sequence 37846, A
37	782	33.3	513	15	US-10-424-599-195511	Sequence 195511,
38	772.5	32.9	642	16	US-10-437-963-150528	Sequence 150528,
39	763.5	32.5	670	16	US-10-739-930-10578	Sequence 10578, A
40	758	32.3	639	16	US-10-425-115-193953	Sequence 193953,
41	757	32.3	637	15	US-10-424-599-218357	Sequence 218357,
42	754	32.1	639	16	US-10-425-115-194452	Sequence 194452,
43	752	32.0	639	16	US-10-425-115-194454	Sequence 194454,
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45	750	32.0	151	14	US-10-002-631C-135	Sequence 135, App

ALIGNMENTS

RESULT 1  
US-10-755-466-4  
; Sequence 4, Application US/10755466  
; Publication No. US20040265854A1  
; GENERAL INFORMATION:  
; APPLICANT: HIDAKA, Jun et al.  
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES  
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES  
; FILE REFERENCE: 0020-4827P  
; CURRENT APPLICATION NUMBER: US/10755.466  
; CURRENT FILING DATE: 2004-01-13  
; PRIOR APPLICATION NUMBER: US/09/786,681  
; PRIOR FILING DATE: 2001-04-30  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 4  
; LENGTH: 579  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-755-466-4

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Qy	61	SYSVKNKSDYKVEDRFDKYLDP	FFQHRHIFWFSIFNSFMVVI	FLVGLVSLMILMTLRKD	120		
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Qy	121	YARYSKEEMDDMDRLDGEY	GWKQVHGVDFRPSHPLI	FSLISGCGQIFAVSLIVIV	180		

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QY 241 GTAFINFIAYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSQGNPPPCRVN 300
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QY 301 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIETSWAYKIYVYVYGFMMMLVLVIL 360
Db 422 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIETSWAYKIYVYVYGFMMMLVLVIL 481
QY 361 CIVTVCVTIYCTYFLNNAEDYRWQWTSFLSAASTAIYVYMYSFYFFKTKMYGLFQTSF 420
Db 482 CIVTVCVTIYCTYFLNNAEDYRWQWTSFLSAASTAIYVYMYSFYFFKTKMYGLFQTSF 541
QY 421 YFGYMAVFSTALGIMCGAI 439
Db 542 YFGYMAVFSTALGIMCGAI 560

RESULT 2
US-10-755-466-2
; Sequence 2, Application US/10755466
; Publication No. US20040265954A1
; GENERAL INFORMATION:
; APPLICANT: HIDAKA, Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/10/755,466
; CURRENT FILING DATE: 2004-01-13
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 582
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-755-466-2

Query Match 100.0%; Score 2347; DB 16; Length 582;
Best Local Similarity 100.0%; Pred. No. 5.2e-220;
Matches 439; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYIDDLPIWIGVGEADENGEDYLLWYKKLEIGFNGNRIVDVNLTSEGKVKLVPTNKIQM 60
Db 125 MYIDDLPIWIGVGEADENGEDYLLWYKKLEIGFNGNRIVDVNLTSEGKVKLVPTNKIQM 184
QY 61 SYSVKWKKSVDKFDKYLDPSPFQHRHWFHSIFNSFMVIFLVGLVSMILMRTLKRD 120
Db 185 SYSVKWKKSVDKFDKYLDPSPFQHRHWFHSIFNSFMVIFLVGLVSMILMRTLKRD 244
QY 121 YARYSKEEEMDDMDRLDGEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIIV 180
Db 245 YARYSKEEEMDDMDRLDGEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIIV 304
QY 181 AMIEDLYTERGSMLSLTAIFVYAATSPVNGYFGGSLYARQGGRRWKQMFICAFILIPAMVC 240
Db 305 AMIEDLYTERGSMLSLTAIFVYAATSPVNGYFGGSLYARQGGRRWKQMFICAFILIPAMVC 364
QY 241 GTAFINFIAYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSQGNPPPCRVN 300
Db 365 GTAFINFIAYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSQGNPPPCRVN 424
QY 301 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIETSWAYKIYVYVYGFMMMLVLVIL 360
Db 425 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIETSWAYKIYVYVYGFMMMLVLVIL 484
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QY 361 CIVTVCVTIYCTYFLNNAEDYRWQWTSFLSAASTAIYVYMYSFYFFKTKMYGLFQTSF 420
Db 485 CIVTVCVTIYCTYFLNNAEDYRWQWTSFLSAASTAIYVYMYSFYFFKTKMYGLFQTSF 544
QY 421 YFGYMAVFSTALGIMCGAI 439
Db 545 YFGYMAVFSTALGIMCGAI 563

RESULT 3
US-09-374-046A-26
; Sequence 26, Application US/09374046A
; Publication No. US20030096951A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: LaVallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steiningger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fecthel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: GI 6075-83A
; CURRENT APPLICATION NUMBER: US/09/374,046A
; CURRENT FILING DATE: 1999-08-13
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
; LENGTH: 545
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-374-046A-26

Query Match 99.7%; Score 2340; DB 10; Length 545;
Best Local Similarity 99.8%; Pred. No. 2.3e-219;
Matches 438; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYIDDLPIWIGVGEADENGEDYLLWYKKLEIGFNGNRIVDVNLTSEGKVKLVPTNKIQM 60
Db 88 MYIDDLPIWIGVGEADENGEDYLLWYKKLEIGFNGNRIVDVNLTSEGKVKLVPTNKIQM 147
QY 61 SYSVKWKKSVDKFDKYLDPSPFQHRHWFHSIFNSFMVIFLVGLVSMILMRTLKRD 120
Db 148 SYSVKWKKSVDKFDKYLDPSPFQHRHWFHSIFNSFMVIFLVGLVSMILMRTLKRD 207
QY 121 YARYSKEEEMDDMDRLDGEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIIV 180
Db 208 YARYSKEEEMDDMDRLDGEYGWKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIIV 267
QY 181 AMIEDLYTERGSMLSLTAIFVYAATSPVNGYFGGSLYARQGGRRWKQMFICAFILIPAMVC 240
Db 268 AMIEDLYTERGSMLSLTAIFVYAATSPVNGYFGGSLYARQGGRRWKQMFICAFILIPAMVC 327
QY 241 GTAFINFIAYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSQGNPPPCRVN 300
Db 328 GTAFINFIAYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSQGNPPPCRVN 387
QY 301 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIETSWAYKIYVYVYGFMMMLVLVIL 360
Db 388 AVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIETSWAYKIYVYVYGFMMMLVLVIL 447
QY 361 CIVTVCVTIYCTYFLNNAEDYRWQWTSFLSAASTAIYVYMYSFYFFKTKMYGLFQTSF 420
Db 448 CIVTVCVTIYCTYFLNNAEDYRWQWTSFLSAASTAIYVYMYSFYFFKTKMYGLFQTSF 507
QY 421 YFGYMAVFSTALGIMCGAI 439
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Db 508 YFGYMAVFSTALGIMCGAI 526  
|||||

RESULT 4

US-10-616-263-26  
; Sequence 26, Application US/10616263  
; Publication No. US20040038276A1  
; GENERAL INFORMATION:  
; APPLICANT: Jacobs, Kenneth  
; APPLICANT: McCoy, John M.  
; APPLICANT: LaValle, Edward R.  
; APPLICANT: Collins-Racie, Lisa A.  
; APPLICANT: Evans, Cheryl  
; APPLICANT: Merberg, David  
; APPLICANT: Treacy, Maurice  
; APPLICANT: Agostino, Michael J.  
; APPLICANT: Steinger II, Robert J.  
; APPLICANT: Spaulding, Vikki  
; APPLICANT: Wong, Gordon G.  
; APPLICANT: Clark, Hilary  
; APPLICANT: Fectel, Kim  
; APPLICANT: Genetics Institute, Inc.  
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM  
; FILE REFERENCE: 00766.000103.5  
; CURRENT APPLICATION NUMBER: US/10/616,263  
; CURRENT FILING DATE: 2003-07-08  
; NUMBER OF SEQ ID NOS: 240  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 26  
; LENGTH: 545  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-616-263-26

Query Match 99.7%; Score 2340; DB 15; Length 545;  
Best Local Similarity 99.8%; Pred. No. 2.3e-219;  
Matches 438; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
QY 1 MYIDDLPIWIGVGEADENGEDYLLTYKKLEIGFNGNRIVDVNLTSEGVKLVPTKIQM 60  
Db 88 MYIDDLPIWIGVGEADENGEDYLLTYKKLEIGFNGNRIVDVNLTSEGVKLVPTKIQM 147  
  
QY 61 SYSVWKKSDDVKFEDRDKYLDPSFQHRHWFHSIFNSPMVIFLVGLVSMILMRTLKD 120  
Db 148 SYSVWKKSDDVKFEDRDKYLDPSFQHRHWFHSIFNSPMVIFLVGLVSMILMRTLKD 207  
  
QY 121 YARYSKEEEMDDMDRLDGEYQWKGVDVFPSSHPHPLIFSSLISSGCGQIFAVSLIIV 180  
Db 208 YARYSKEEEMDDMDRLDGEYQWKGVDVFPSSHPHPLIFSSLISSGCGQIFAVSLIIV 267  
  
QY 181 AMIEDLYTERGSMSTAFVYAATSPVNGYFGSLYARQGGRRWIKQMFIGAFLIPAMVC 240  
Db 268 AMIEDLYTERGSMSTAFVYAATSPVNGYFGSLYARQGGRRWIKQMFIGAFLIPAMVC 327  
  
QY 241 GTAFFINFATYYHASRAIPFGTMVAVCCICFFVLPLNLVGTILGRNLSGQPNPCRN 300  
Db 328 GTAFFINFATYYHASRAIPFGTMVAVCCICFFVLPLNLVGTILGRNLSGQPNPCRN 387  
  
QY 301 AVPRPIPEKKWPEPAVIVCLGILPFGSIFIEMYEFTSFYWKIYVYVGFMMVLVL 360  
Db 388 AVPRPIPEKKWPEPAVIVCLGILPFGSIFIEMYEFTSFYWKIYVYVGFMMVLVL 447  
  
QY 361 CIVTVCVTIVCTYFLNABEDRWQTSFSLSAASTAIYVYMYSPYFFTKTKYGLPQTSF 420  
Db 448 CIVTVCVTIVCTYFLNABEDRWQTSFSLSAASTAIYVYMYSPYFFTKTKYGLPQTSF 507  
  
QY 421 YFGYMAVFSTALGIMCGAI 439  
Db 508 YFGYMAVFSTALGIMCGAI 526  
|||||

RESULT 5

US-10-205-219-121  
; Sequence 121, Application US/10205219  
; Publication No. US20030138803A1  
; GENERAL INFORMATION:  
; APPLICANT: Warner-Lambert Company  
; APPLICANT: Lee, Kevin  
; APPLICANT: Dixon, Alistair  
; APPLICANT: Brookbank, Robert  
; APPLICANT: Pinnock, Robert  
; TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain  
; FILE REFERENCE: WL-A-018200  
; CURRENT APPLICATION NUMBER: US/10/205,219  
; CURRENT FILING DATE: 2002-07-24  
; PRIOR APPLICATION NUMBER: GB 0118354.0  
; PRIOR FILING DATE: 2001-07-27  
; NUMBER OF SEQ ID NOS: 197  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 121  
; LENGTH: 530  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: EP70-P-iso  
US-10-205-219-121

Query Match 65.7%; Score 1543; DB 14; Length 530;  
Best Local Similarity 75.5%; Pred. No. 1.5e-141;  
Matches 318; Conservative 12; Mismatches 51; Indels 40; Gaps 7;  
  
QY 1 MYIDDLPIWIGVGEADENGEDYLLTYKKLEIGFNGNRIVDVNLTSEGVKLV---VPNTK 57  
Db 131 MYIDDLPIWIGVGEADENGEDYLLTYKKLEIGFNGNRIVDVNLTSEGVKLVKSYNDP 190  
  
QY 58 IQMSYSVWKKSDDVKFEDRDKYLDPSFQHRHWFHSIFNSPMVIFLVGLVSMILMRTL 117  
Db 191 VIPS---KWEKSDVKFEDRDNIL-IVLFSHRIHWFHSIFNSPMVIFLVGLVSMILMRTL 246  
  
QY 118 RKDYARYSKEEEMDDMDRLDGEYQWKGVDVFPSSHPHPLIFSSLISSGCGQIFAVSLIV 177  
Db 247 RKDYARYSKEEEMDDMDRLDGEYQWKGVDVFPSSHPHPLIFSSLISSGCGQIFAVSLIV 306  
  
QY 178 IIVAMIEDLYTERGSMSTAFVYAATSPVNGYFGSLYARQGGRRWIKQMFIGAFLIPA 237  
Db 307 IIVAMIEDLYTERGSMSTAFVYAATSPVNGYFGSLYARQGGRRWIKQMFIGAFLIPA 366  
  
QY 238 MCVGTAFPIINFATYYHASRAIPFGTMVAVCCICFFVLPLNLVGTILGRNLSGQPNPC 297  
Db 367 M-----GVHCLLHOFH-SHLLP-----CFKSHSPWNGGRLHLHFFCYSSKSC 409  
  
QY 298 RVNAVPRPIPE-----KKWPEPAVIVCLGILPFGSIFIEMYEFTSF 341  
Db 410 WYNTWPKSVRSQAQLSLSQCCASSYTGKMWVHGAIVIVCLGILPFGSIFIEMYEFTSF 469  
  
QY 342 WAYKIYVYVGFMMVLVLIVCTVCTVCTVCTVCTVCTVCTVCTVCTVCTVCTVCTVCTV 401  
Db 470 WAYKIYVYVGFMMVLVLIVCTVCTVCTVCTVCTVCTVCTVCTVCTVCTVCTVCTVCTV 529  
  
QY 402 S 402  
Db 530 S 530

RESULT 6

US-10-425-115-325471  
; Sequence 325471, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants

```
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 325471
; LENGTH: 596
; TYPE: PRT
; ORGANISM: Zea mays
;
; OTHER INFORMATION: Clone ID: MRT4577_598C.1.pep
US-10-425-115-325471

Query Match      61.2%; Score 1437; DB 16; Length 596;
Best Local Similarity 59.5%; Pred. No. 3.8e-131;
Matches 262; Conservative 74; Mismatches 102; Indels 2; Gaps 2;

Qy  2 YIDDLPIWGIAGEADENGED-YIYLWYTKKLEIGFNGNRIVDVNLTSGKVKLVPTNTKIQM 60
Db  138 FIDDLPLWGFVGEDSKNSKXHYLYTHKNILVYKNDNRRIHVNLTSQSPKLEDEGKKLEM 197

Qy  61 SYSVKWKKSVDKPEDRDKYLDPSFPQHRHWFSPFNSFMWVIFLVGLVSMILMRTLK 120
Db  198 TYSVKWATDVSFARFEVLDYPPFEHQIHWFSIFNSFMWVIFLVGLVSMILMRTLND 257

Qy  121 YARYSKE-BEMDDMDRLDGEYGMKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVII 179
Db  258 YAKYAREDDDLSELRDNEESGKLVHGDVFRPSPRLMFLSALVGIGTQLAALILLIV 317

Qy  180 VAMIEDLYTERGSMSTAIFFVYAATSPVNGYFGGSLYARQGRRWIKOMFTGAFILIPAMV 239
Db  318 LAIVGMLYVGRGAIITTFIVCYALTSPISGVSGGLYSRSGKWKAMVLITASLFPFLC 377

Qy  240 CGTAFFINFIAIYYHASRAIPFGTWAVCCICFFVLPLNLVGTILGRNLSGQNPFCRV 299
Db  378 PSIGFMLNTIAIFYRSLAAIPFGTWAVMFVWAFISFPLVLLGTVVGRRNSGAPNNPCR 437

Qy  300 NAVPRPIPEKKWFMEPAVIVCLGGLTPGSGIFEMVFIETSFWAYKIVYVYGFMMVLVI 359
Db  438 KTIPIRPIPEKKWYLTSPVISLGMGLLPPGSIPIEMVFIETSFVFNKYVYVYGFMLLVFI 497

Qy  360 LCIVTVCTIVCTYFLNNAEDYRWQTSFSLSAASTAIYVVMYSFYFFPKTKMYGLFQTS 419
Db  498 LLIVTVCTIVGTYFLNNAENYHWQTSFSSAATALYVYLSIYVYHVTKMSGFFQTS 557

Qy  420 FYFGYMAVFSTALGIMCGAI 439
Db  558 FYFGYTLMFCLGLGLGCAV 577

RESULT 7
US-10-425-114-66140
; Sequence 66140, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 66140
; LENGTH: 576
; TYPE: PRT
; ORGANISM: Zea mays
;
; OTHER INFORMATION: Clone ID: LIB4573-008-E4_FLI.pep
US-10-425-114-66140
```

```
Query Match      61.2%; Score 1436; DB 15; Length 576;
Best Local Similarity 59.2%; Pred. No. 4.6e-131;
Matches 261; Conservative 74; Mismatches 104; Indels 2; Gaps 2;

Qy  1 MYIDDLPIWGIAGEADENGED-DYYLWYTKKLEIGFNGNRIVDVNLTSEGVKVLVPNTKIQ 59
Db  117 LFIDDLPLWGFVGETDKNEKKHYLYTHKNIVVYKNGRIHVNLTSQSPKLEAGKKLD 176

Qy  60 MSYSVKWKKSVDKPEDRDKYLDPSFPQHRHWFSPFNSFMWVIFLVGLVSMILMRTLK 119
Db  177 MTYSVKWVQTNVAFARFEVLDYPPFEHQIHWFSIFNSFMWVIFLVGLVSMILMRTLNRN 236

Qy  120 DYARYSKE-BEMDDMDRLDGEYGMKQVHGDVFRPSSHPLIFSSLIGSGCQIFAVSLIVI 178
Db  237 DYAKYAREDDDLSELRDNEESGKLVHGDVFRPSPRGQVFLSALVGIGTQLAALILLVI 296

Qy  179 IVAMIEDLYTERGSMSTAIFFVYAATSPVNGYFGGSLYARQGRRWIKOMFIGAFLIPAM 238
Db  297 VLAIVVMYVGRGAIITTFIVCYALTSPISGVSGGLYSRNGKWKAMILTASLFPFL 356

Qy  239 VCGTAFFINFIAIYYHASRAIPFGTWAVCCICFFVLPLNLVGTILGRNLSGQNPPCR 298
Db  357 CFSIGLILNTIAIFYRSLAAIPFGTWVMEILWAFISFPLVLLGTVVGRRNSGAPNNPCR 416

Qy  299 VNAVPRPIPEKKWFMEPAVIVCLGGLTPGSGIFEMVFIETSFWAYKIVYVYGFMMVLVI 358
Db  417 VKTIPRPIPEKKWYLTSPVISLGMGLLPPGSIPIEMVFIETSFVFNKYVYVYGFMLLVFI 476

Qy  359 ILCIVTVCTIVCTYFLNNAEDYRWQTSFSLSAASTAIYVVMYSFYFFPKTKMYGLFQ 418
Db  477 ILIVTVCTIVGTYFLNNAENYHWQTSFSSAATALYVYLSIYVYHVTKMSGFFQ 536

Qy  419 SPYFGYMAVFSTALGIMCGAI 439
Db  537 SPYFGYTLMFCLGLGLGCAV 557

RESULT 8
US-10-425-115-286624
; Sequence 286624, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 286624
; LENGTH: 552
; TYPE: PRT
; ORGANISM: Zea mays
;
; OTHER INFORMATION: Clone ID: MRT4577_24498C.1.pep
US-10-425-115-286624

Query Match      61.1%; Score 1435; DB 16; Length 552;
Best Local Similarity 59.0%; Pred. No. 5.4e-131;
Matches 260; Conservative 75; Mismatches 104; Indels 2; Gaps 2;

Qy  1 MYIDDLPIWGIAGEADENGED-DYYLWYTKKLEIGFNGNRIVDVNLTSEGVKVLVPNTKIQ 59
Db  93 LFIDDLPLWGFVGETDKNEKKHYLYTHKNIVVYKNGRIHVNLTSQSPKLEAGKKLD 152

Qy  60 MSYSVKWKKSVDKPEDRDKYLDPSFPQHRHWFSPFNSFMWVIFLVGLVSMILMRTLK 119
Db  153 MTYSVKWVQTNVAFARFEVLDYPPFEHQIHWFSIFNSFMWVIFLVGLVSMILMRTLNRN 212
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```
; SEQ ID NO 9909
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAE-23APR03-C2111_1.p
US-10-739-930-9909

Query Match          60.1%; Score 1411; DB 16; Length 595;
Best Local Similarity 58.4%; Pred. No. 1.3e-128; Indels 2; Gaps 2;
Matches 257; Conservative 74; Mismatches 107;

Qy  2 YIDDLPIWIGVEADENGED-YLLWYTKKLEIGFNGNRIVDNLTSSEKVKLVNPKIQM 60
    :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 137 FIDDLPLAGFVGETDKNSKNHYLTHKNILKYNDNRIIHVNLTOESPGLDAGKNLDM 196

Qy  61 SYSVKWKSVDKPEDRFKYLDPSPFQHRHWFSEFNSFMVIFLVGLVSLMILMRTLRKD 120
    :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 197 TYSKAWVPTDVSFARRFEVLDYPPFEHQIHWFSIFNSFMVIFLTGLVSLMILMRTLRD 256

Qy 121 YARYSK-BEEMDDMDRLDGEVGMKQVHGDVFRPSSHPLIFSSLGSCQIFAVSLVII 179
    :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 257 YAKYARDDDLESLESDRNEESGKLVHGDVFRPSPRSITLSALVIGITQLAALLIVIV 316

Qy 180 VAMIEDLYTERGSMSTAFVYAATSPVNGYFGSLYARQGRRIKQMFAGFLIPAMV 239
    :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 317 LAIVGMLVYGRGAITTFIVCYALTSFISGYVSAGLSRNGKWKAMILTASLFPFLH 376

Qy 240 COTAFFINFIAIYXHASRAIPGTWVAVCCICFFVILPLNLVGTILGRNLSQPNPCRV 299
    :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 377 PAIGFALNTIAIFYGLAAIPGTVMVIFVLMWAFISFLVLILGTIVGRNWSGAPNPCR 436

Qy 300 NAVPRPIPEKWFMEPAIVCLGGILPGSIFEMVFIETSPWAKIYVYVGMMLVLI 359
    :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 437 KTIPIPIPERKWLTPSVISLMGGLLPFGSIFEMVFIETSPWAKIYVYVGMMLVLI 496

Qy 360 LCIVTCVCTVCTYFLLNAEDYRWQWTSFLSAATAIYVYMYSPYFFKTKMYGLFQTS 419
    :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 497 LLIVTCVCTVCTYFLLNAEDYRWQWTSFLSAATAIYVYMYSPYFFKTKMYGLFQTS 556

Qy 420 FYFGYMAVSTALGIMCGAI 439
    :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 557 FYFGYTLMPCLGLGILCGAI 576

RESULT 14
US-10-437-963-103141
; Sequence 103141, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 103141
; LENGTH: 424
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(424)
; OTHER INFORMATION: unsure at all xaa locations
; FEATURE:
```

```
; OTHER INFORMATION: Clone ID: PAT_MRT4530_1005C.1.p
US-10-437-963-103141

Query Match          54.5%; Score 1278.5; DB 16; Length 424;
Best Local Similarity 58.2%; Pred. No. 7.4e-116; Indels 1; Gaps 1;
Matches 231; Conservative 67; Mismatches 98;

Qy  44 LTSEGVKVLVNTKIQMSYSVKWKSVDKPEDRFKYLDPSPFQHRHWFSEFNSFMV 103
    :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 10 ISQSPHLEAGKKLDMTYSVKWQTNVAFARREVEYLDYPPFEHQIHWFSIFNSFMV 69

Qy 104 FLVGLVSLMILMRTLRKDYARYSKE-BEEMDDMDRLDGEVGMKQVHGDVFRPSSHPLIFSS 162
    :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 70 FLTGLVSLMILMRTLRNDYAKYAREDDLESLESDRNEESGKLVHGDVFRPSPRSILFUSA 129

Qy 163 LIGSGCOIFAVSLVIIIVAMIEDLYTERGSMSTAFVYAATSPVNGYFGSLYARQGR 222
    :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 130 FVGLGTQALAILLVIAIVGLMYVYGRGAITTFIVCYALTSFISGYVSAGLSRNGK 189

Qy 223 RWIKOMFIGAFIPAMVCGTAFFINFAIYXHASRAIPGTWVAVCCICFFVILPLNLV 282
    :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 190 NWIKSMILTASLFPFLCFSIGLVNLTIAIFYRSLAAIPGTVMVIFVLMWAFISFL 249

Qy 283 TILGRNLSQPNPCRVNAVPRPIPEKWFMEPAIVCLGGILPGSIFEMVFIETSPW 342
    :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 250 TVGRNWSGAPNPCRVTIPRPIPEKWKYLTSPVISMGLLPFGSIFEMVFIETSPW 309

Qy 343 AKIYVYVGMMLVILCIVTCVCTVCTYFLLNAEDYRWQWTSFLSAATAIYVYMY 402
    :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 310 NYKYVYVGMMLVFLVILVITCIVTCVCTVCTYFLLNAEDYRWQWTSFLSAATAI 369

Qy 403 FYFFKTKMYGLFQTSFYFGYMAVSTALGIMCGAI 439
    :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 370 IYVYVTKMSGFFQTSFYFGYTLMPCLGLGILCGTV 406

RESULT 15
US-10-425-115-206340
; Sequence 206340, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 206340
; LENGTH: 500
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(500)
; OTHER INFORMATION: unsure at all xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_119765C.1.p
US-10-425-115-206340

Query Match          49.3%; Score 1158; DB 16; Length 500;
Best Local Similarity 56.7%; Pred. No. 5.3e-104; Indels 2; Gaps 2;
Matches 212; Conservative 72; Mismatches 88;

Qy  2 YIDDLPIWIGVEADENGED-YLLWYTKKLEIGFNGNRIVDNLTSSEKVKLVNPKIQM 60
    :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 127 FIDDLPLAGFVGEADRNNDKRYFLTHKNIVIRYNGNQLIIVNLTOESPGLDAGKNLDM 186

Qy  61 SYSVKWKSVDKPEDRFKYLDPSPFQHRHWFSEFNSFMVIFLVGLVSLMILMRTLRKD 120
    :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
```

Db 187 TYSVKWEPNTITFAHRFDVLDYDPPFEHQIHWFSIENSFMWVIFLTGLVSMILMRTLRLND 246  
Qy 121 YARYSK-EEEMDDMRDLGDEYQWQVHGDFRPFSSHPLIFSSLISSGCGQIFAVSLIVII 179  
Db 247 YAKYARDDDDTETLERDYNESGWKLHGDVFRPPCNLVLSALVIGIGTQLAALILILVIL 306  
Qy 180 VAMIEDLYTERGSMSTAI FVYAATSPVNGYFGGSLVARQGRRWIKOMFIGAFLIPAMV 239  
Db 307 LAITGMLYIGRGAIVTTFIVCYALTSPISGYVSGALYSRHHGKNWIKAMAMTASLFFPMC 366  
Qy 240 CGTAFINFIAYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSSQPNFPCRV 299  
Db 367 FGIGLVNTIAIFYGSLAAIPFGTMVVVFIWAFISPLALLGTVVGNWSGAPNNPCRV 426  
Qy 300 NAVPRPIPEKKWFMEPAVIVCLGILLPGSIFIEMFYFTSFWAYKYVYVYGFMMLVLI 359  
Db 427 KTIPIRPIPEKKWYLTPTSVIALMGGLLPFGSIFIEMFYFTSFWMYKVYVYGFMLLVFLI 486  
Qy 360 LCIVTVCVTVICTY 373  
Db 487 LIIVXICVTIVGTY 500

Search completed: August 9, 2005, 13:49:19  
Job time : 97.1527 secs

file